

100-100000

ALCOHOL TABLES

BY

**UNIVERSITÉ LAVAL
QUEBEC.**

OTTO HEHNER, F.C.S.

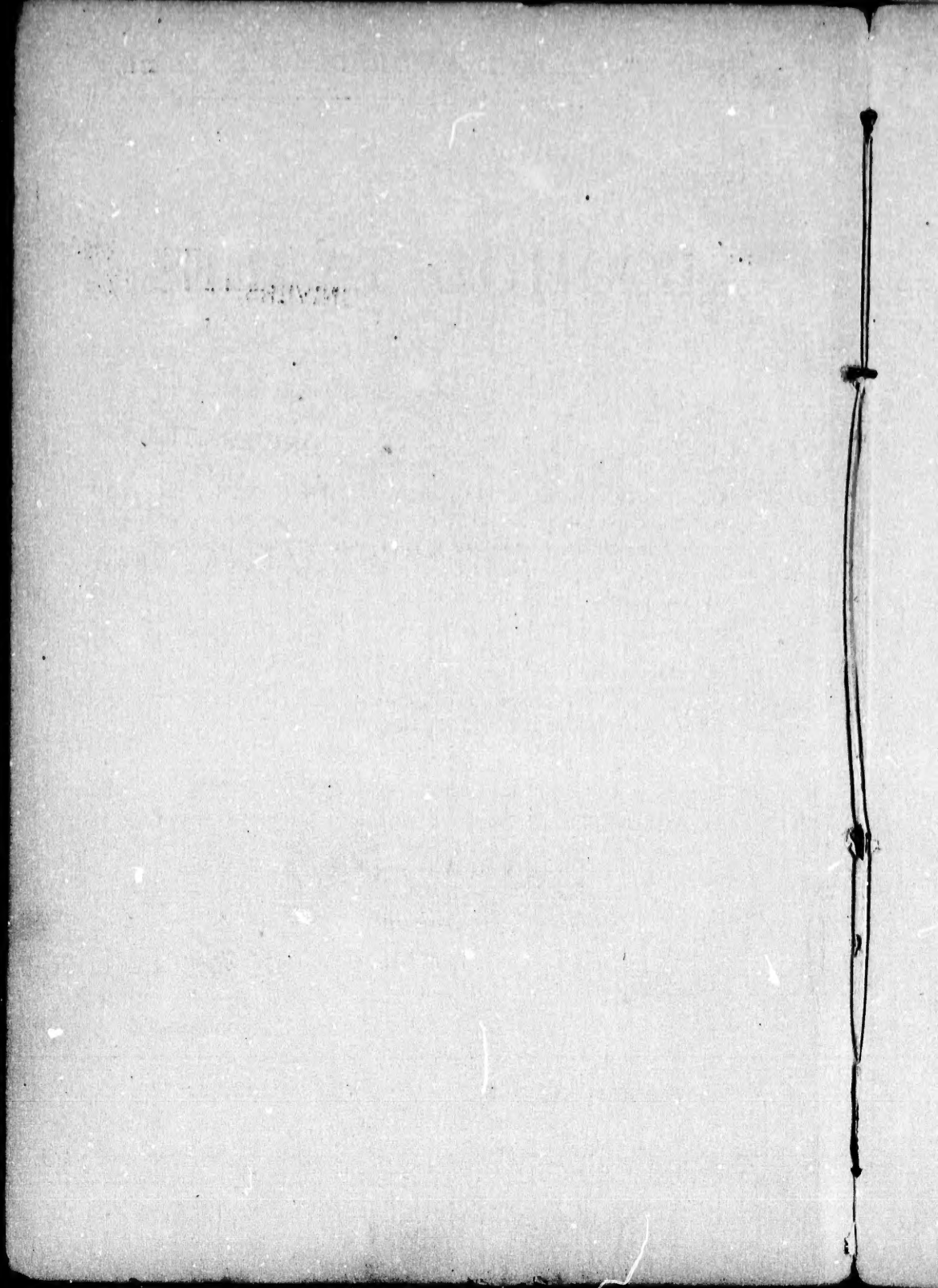
From "The Analyst."



OTTAWA:

PRINTED BY MACLEAN ROGER & CO., WELLINGTON STREET.

1884.



UNIVERSITÉ LAVAL
QUEBEC.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, 28th July, 1884.

To Inspectors, Collectors and Officers of Inland Revenue:

The accompanying tables will be found useful in determining, from the specific gravity [of any spirits at a temperature of 60° F., the weight and volume respectively of absolute alcohol therein contained, and the percentage of proof spirits.

The following rules have been followed in the calculations, and may be reverted to in order to check the figures in case of doubt:—

To convert—

$$\text{Weight into volume} = \frac{\text{Specific gravity} \times \text{per cent. weight.}}{0.7928}$$

$$\text{Volume into weight} = \frac{0.7928 \times \text{per cent. volume.}}{\text{Specific gravity.}}$$

$$\text{Volume into proof} = \text{per cent. volume} \times 1.7525.$$

$$\text{Weight into proof} = \text{per cent. weight} \times \text{specific gravity} \times 2.20771.$$

Degrees under proof are obtained by subtracting percentages of proof spirits lower than 100 from that figure, and degrees over proof by the subtraction of 100 from percentages of proof spirits lying between proof and absolute alcohol.



Com. I. R.

1912

1913

1914

1915

1916

1917

1918

1919

1920

1921

1922

1923

1924

1925

1926

1927

1928

ALCOHOL TABLES.

By OTTO HERNER, F.O.S.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirit. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirit. |
|---------------------------------------|-----------------------------|-----------------------------|---------------|---------------------------------------|-----------------------------|-----------------------------|---------------|
| per cent. | per cent. | per cent. | per cent. | per cent. | per cent. | per cent. | per cent. |
| 1.0000 ... 0.00 ... 0.00 ... 0.00 ... | | | | 0.9999 ... 0.99 ... 0.99 ... 0.99 ... | | | |
| 0.9999 ... 0.05 ... 0.07 ... 0.12 ... | | | | 0.9998 ... 2.39 ... 3.00 ... 5.25 ... | | | |
| 8 ... 0.11 ... 0.13 ... 0.23 ... | | | | 8 ... 2.39 ... 3.00 ... 5.25 ... | | | |
| 7 ... 0.16 ... 0.20 ... 0.35 ... | | | | 7 ... 2.44 ... 3.07 ... 5.37 ... | | | |
| 6 ... 0.21 ... 0.26 ... 0.46 ... | | | | 6 ... 2.50 ... 3.14 ... 5.49 ... | | | |
| 5 ... 0.26 ... 0.33 ... 0.56 ... | | | | 5 ... 2.56 ... 3.21 ... 5.61 ... | | | |
| 4 ... 0.33 ... 0.40 ... 0.70 ... | | | | 4 ... 2.61 ... 3.28 ... 5.74 ... | | | |
| 3 ... 0.37 ... 0.46 ... 0.81 ... | | | | 3 ... 2.67 ... 3.35 ... 5.86 ... | | | |
| 2 ... 0.43 ... 0.53 ... 0.93 ... | | | | 2 ... 2.73 ... 3.43 ... 5.99 ... | | | |
| 1 ... 0.47 ... 0.60 ... 1.04 ... | | | | 1 ... 2.78 ... 3.49 ... 6.10 ... | | | |
| 0 ... 0.53 ... 0.68 ... 1.16 ... | | | | 0 ... 2.83 ... 3.55 ... 6.23 ... | | | |
| 0.9999 ... 0.58 ... 0.73 ... 1.29 ... | | | | 0.9999 ... 2.88 ... 3.62 ... 6.34 ... | | | |
| 8 ... 0.63 ... 0.79 ... 1.39 ... | | | | 8 ... 2.94 ... 3.69 ... 6.47 ... | | | |
| 7 ... 0.68 ... 0.86 ... 1.51 ... | | | | 7 ... 3.00 ... 3.76 ... 6.59 ... | | | |
| 6 ... 0.74 ... 0.93 ... 1.62 ... | | | | 6 ... 3.06 ... 3.83 ... 6.72 ... | | | |
| 5 ... 0.79 ... 0.99 ... 1.74 ... | | | | 5 ... 3.12 ... 3.90 ... 6.84 ... | | | |
| 4 ... 0.84 ... 1.06 ... 1.86 ... | | | | 4 ... 3.18 ... 3.96 ... 6.97 ... | | | |
| 3 ... 0.89 ... 1.13 ... 1.97 ... | | | | 3 ... 3.24 ... 4.05 ... 7.10 ... | | | |
| 2 ... 0.95 ... 1.19 ... 2.09 ... | | | | 2 ... 3.29 ... 4.12 ... 7.23 ... | | | |
| 1 ... 1.00 ... 1.26 ... 2.20 ... | | | | 1 ... 3.35 ... 4.20 ... 7.36 ... | | | |
| 0 ... 1.06 ... 1.34 ... 2.34 ... | | | | 0 ... 3.41 ... 4.27 ... 7.49 ... | | | |
| 0.9999 ... 1.13 ... 1.42 ... 2.48 ... | | | | 0.9999 ... 3.47 ... 4.34 ... 7.61 ... | | | |
| 8 ... 1.19 ... 1.49 ... 2.61 ... | | | | 8 ... 3.53 ... 4.42 ... 7.74 ... | | | |
| 7 ... 1.25 ... 1.57 ... 2.75 ... | | | | 7 ... 3.59 ... 4.49 ... 7.87 ... | | | |
| 6 ... 1.31 ... 1.65 ... 2.89 ... | | | | 6 ... 3.65 ... 4.56 ... 8.00 ... | | | |
| 5 ... 1.37 ... 1.73 ... 3.03 ... | | | | 5 ... 3.71 ... 4.63 ... 8.13 ... | | | |
| 4 ... 1.44 ... 1.81 ... 3.16 ... | | | | 4 ... 3.76 ... 4.71 ... 8.26 ... | | | |
| 3 ... 1.50 ... 1.88 ... 3.30 ... | | | | 3 ... 3.82 ... 4.78 ... 8.38 ... | | | |
| 2 ... 1.56 ... 1.96 ... 3.44 ... | | | | 2 ... 3.88 ... 4.85 ... 8.51 ... | | | |
| 1 ... 1.62 ... 2.04 ... 3.58 ... | | | | 1 ... 3.94 ... 4.93 ... 8.64 ... | | | |
| 0 ... 1.69 ... 2.12 ... 3.71 ... | | | | 0 ... 4.00 ... 5.00 ... 8.77 ... | | | |
| 0.9999 ... 1.75 ... 2.20 ... 3.85 ... | | | | 0.9999 ... 4.06 ... 5.08 ... 8.90 ... | | | |
| 8 ... 1.81 ... 2.27 ... 3.99 ... | | | | 8 ... 4.12 ... 5.16 ... 9.04 ... | | | |
| 7 ... 1.87 ... 2.25 ... 4.12 ... | | | | 7 ... 4.19 ... 5.24 ... 9.18 ... | | | |
| 6 ... 1.94 ... 2.43 ... 4.26 ... | | | | 6 ... 4.25 ... 5.32 ... 9.31 ... | | | |
| 5 ... 2.00 ... 2.51 ... 4.40 ... | | | | 5 ... 4.31 ... 5.39 ... 9.45 ... | | | |
| 4 ... 2.06 ... 2.58 ... 4.52 ... | | | | 4 ... 4.37 ... 5.47 ... 9.58 ... | | | |
| 3 ... 2.11 ... 2.62 ... 4.64 ... | | | | 3 ... 4.44 ... 5.55 ... 9.72 ... | | | |
| 2 ... 2.17 ... 2.72 ... 4.76 ... | | | | 2 ... 4.50 ... 5.63 ... 9.86 ... | | | |
| 1 ... 2.22 ... 2.79 ... 4.89 ... | | | | 1 ... 4.56 ... 5.71 ... 9.99 ... | | | |
| 0 ... 2.28 ... 2.86 ... 5.01 ... | | | | 0 ... 4.62 ... 5.78 ... 10.13 ... | | | |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 0010 ... | 4.69 ... | 5.66 ... | 10.20 ... | 0070 ... | 7.33 ... | 9.13 ... | 15.99 ... |
| 8 ... | 4.75 ... | 5.94 ... | 10.40 ... | 8 ... | 7.40 ... | 9.21 ... | 16.14 ... |
| 7 ... | 4.81 ... | 6.02 ... | 10.54 ... | 7 ... | 7.47 ... | 9.29 ... | 16.28 ... |
| 6 ... | 4.87 ... | 6.10 ... | 10.67 ... | 6 ... | 7.53 ... | 9.37 ... | 16.42 ... |
| 5 ... | 4.94 ... | 6.17 ... | 10.81 ... | 5 ... | 7.60 ... | 9.45 ... | 16.57 ... |
| 4 ... | 5.00 ... | 6.24 ... | 10.94 ... | 4 ... | 7.67 ... | 9.54 ... | 16.71 ... |
| 3 ... | 5.06 ... | 6.32 ... | 11.08 ... | 3 ... | 7.73 ... | 9.62 ... | 16.86 ... |
| 2 ... | 5.12 ... | 6.40 ... | 11.21 ... | 2 ... | 7.80 ... | 9.70 ... | 17.00 ... |
| 1 ... | 5.19 ... | 6.48 ... | 11.35 ... | 1 ... | 7.87 ... | 9.78 ... | 17.14 ... |
| 0 ... | 5.25 ... | 6.55 ... | 11.49 ... | 0 ... | 7.93 ... | 9.86 ... | 17.29 ... |
| 0020 ... | 5.31 ... | 6.63 ... | 11.63 ... | 0080 ... | 8.00 ... | 9.95 ... | 17.43 ... |
| 8 ... | 5.37 ... | 6.71 ... | 11.76 ... | 8 ... | 8.07 ... | 10.03 ... | 17.58 ... |
| 7 ... | 5.44 ... | 6.78 ... | 11.89 ... | 7 ... | 8.14 ... | 10.12 ... | 17.74 ... |
| 6 ... | 5.50 ... | 6.86 ... | 12.03 ... | 6 ... | 8.21 ... | 10.21 ... | 17.89 ... |
| 5 ... | 5.56 ... | 6.94 ... | 12.16 ... | 5 ... | 8.29 ... | 10.30 ... | 18.04 ... |
| 4 ... | 5.62 ... | 7.01 ... | 12.30 ... | 4 ... | 8.36 ... | 10.38 ... | 18.20 ... |
| 3 ... | 5.69 ... | 7.09 ... | 12.43 ... | 3 ... | 8.43 ... | 10.47 ... | 18.35 ... |
| 2 ... | 5.75 ... | 7.17 ... | 12.57 ... | 2 ... | 8.50 ... | 10.56 ... | 18.50 ... |
| 1 ... | 5.81 ... | 7.25 ... | 12.70 ... | 1 ... | 8.57 ... | 10.65 ... | 18.65 ... |
| 0 ... | 5.87 ... | 7.32 ... | 12.84 ... | 0 ... | 8.64 ... | 10.73 ... | 18.81 ... |
| 0030 ... | 5.94 ... | 7.40 ... | 12.97 ... | 0090 ... | 8.71 ... | 10.82 ... | 18.96 ... |
| 8 ... | 6.00 ... | 7.48 ... | 13.11 ... | 8 ... | 8.79 ... | 10.91 ... | 19.11 ... |
| 7 ... | 6.07 ... | 7.57 ... | 13.27 ... | 7 ... | 8.86 ... | 11.00 ... | 19.27 ... |
| 6 ... | 6.14 ... | 7.66 ... | 13.42 ... | 6 ... | 8.93 ... | 11.08 ... | 19.42 ... |
| 5 ... | 6.21 ... | 7.74 ... | 13.57 ... | 5 ... | 9.00 ... | 11.17 ... | 19.58 ... |
| 4 ... | 6.28 ... | 7.83 ... | 13.73 ... | 4 ... | 9.07 ... | 11.26 ... | 19.73 ... |
| 3 ... | 6.36 ... | 7.92 ... | 14.88 ... | 3 ... | 9.14 ... | 11.35 ... | 19.89 ... |
| 2 ... | 6.43 ... | 8.01 ... | 14.04 ... | 2 ... | 9.21 ... | 11.44 ... | 20.04 ... |
| 1 ... | 6.50 ... | 8.10 ... | 14.19 ... | 1 ... | 9.29 ... | 11.52 ... | 20.19 ... |
| 0 ... | 6.57 ... | 8.18 ... | 14.35 ... | 0 ... | 9.36 ... | 11.61 ... | 20.35 ... |
| 0040 ... | 6.64 ... | 8.27 ... | 14.50 ... | 0040 ... | 9.43 ... | 11.70 ... | 20.50 ... |
| 8 ... | 6.71 ... | 8.36 ... | 14.66 ... | 8 ... | 9.50 ... | 11.79 ... | 20.65 ... |
| 7 ... | 6.78 ... | 8.45 ... | 14.81 ... | 7 ... | 9.57 ... | 11.87 ... | 20.81 ... |
| 6 ... | 6.86 ... | 8.54 ... | 14.96 ... | 6 ... | 9.64 ... | 11.96 ... | 20.96 ... |
| 5 ... | 6.93 ... | 8.63 ... | 15.12 ... | 5 ... | 9.71 ... | 12.05 ... | 21.11 ... |
| 4 ... | 7.00 ... | 8.72 ... | 15.27 ... | 4 ... | 9.79 ... | 12.13 ... | 21.27 ... |
| 3 ... | 7.07 ... | 8.80 ... | 15.42 ... | 3 ... | 9.86 ... | 12.22 ... | 21.42 ... |
| 2 ... | 7.13 ... | 8.88 ... | 15.56 ... | 2 ... | 9.93 ... | 12.31 ... | 21.57 ... |
| 1 ... | 7.20 ... | 8.96 ... | 15.70 ... | 1 ... | 10.00 ... | 12.40 ... | 21.73 ... |
| 0 ... | 7.27 ... | 9.04 ... | 15.85 ... | 0 ... | 10.08 ... | 12.49 ... | 21.89 ... |

ALCOHOL TABLES.

QUEBEC.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| '9999 ... | 10.15 ... | 13.59 ... | 23.06 ... | '9799 ... | 13.33 ... | 16.53 ... | 28.63 ... |
| 8 ... | 10.23 ... | 13.68 ... | 23.23 ... | 8 ... | 13.31 ... | 16.43 ... | 28.78 ... |
| 7 ... | 10.31 ... | 13.77 ... | 23.38 ... | 7 ... | 13.30 ... | 16.52 ... | 28.95 ... |
| 6 ... | 10.39 ... | 13.87 ... | 23.55 ... | 6 ... | 13.46 ... | 16.61 ... | 29.11 ... |
| 5 ... | 10.46 ... | 13.96 ... | 23.71 ... | 5 ... | 13.54 ... | 16.70 ... | 29.27 ... |
| 4 ... | 10.54 ... | 13.05 ... | 23.88 ... | 4 ... | 13.62 ... | 16.80 ... | 29.43 ... |
| 3 ... | 10.63 ... | 13.15 ... | 23.04 ... | 3 ... | 13.69 ... | 16.89 ... | 29.60 ... |
| 2 ... | 10.69 ... | 13.24 ... | 23.21 ... | 2 ... | 13.77 ... | 16.98 ... | 29.76 ... |
| 1 ... | 10.77 ... | 13.34 ... | 23.37 ... | 1 ... | 13.85 ... | 17.08 ... | 29.92 ... |
| 0 ... | 10.85 ... | 13.43 ... | 23.54 ... | 0 ... | 13.92 ... | 17.17 ... | 30.09 ... |
| '9999 ... | 10.92 ... | 13.52 ... | 23.70 ... | '9799 ... | 14.00 ... | 17.26 ... | 30.26 ... |
| 8 ... | 11.00 ... | 13.62 ... | 23.86 ... | 8 ... | 14.09 ... | 17.37 ... | 30.43 ... |
| 7 ... | 11.08 ... | 13.71 ... | 24.03 ... | 7 ... | 14.18 ... | 17.48 ... | 30.64 ... |
| 6 ... | 11.15 ... | 13.81 ... | 24.19 ... | 6 ... | 14.27 ... | 17.50 ... | 31.83 ... |
| 5 ... | 11.23 ... | 13.90 ... | 24.36 ... | 5 ... | 14.36 ... | 17.70 ... | 31.03 ... |
| 4 ... | 11.31 ... | 13.99 ... | 24.52 ... | 4 ... | 14.45 ... | 17.81 ... | 31.23 ... |
| 3 ... | 11.38 ... | 14.09 ... | 24.69 ... | 3 ... | 14.55 ... | 17.92 ... | 31.41 ... |
| 2 ... | 11.46 ... | 14.18 ... | 24.85 ... | 2 ... | 14.64 ... | 18.03 ... | 31.61 ... |
| 1 ... | 11.54 ... | 14.27 ... | 25.01 ... | 1 ... | 14.73 ... | 18.14 ... | 31.80 ... |
| 0 ... | 11.62 ... | 14.37 ... | 25.18 ... | 0 ... | 14.82 ... | 18.25 ... | 31.99 ... |
| '9919 ... | 11.69 ... | 14.46 ... | 25.34 ... | '9779 ... | 14.91 ... | 18.36 ... | 32.19 ... |
| 8 ... | 11.77 ... | 14.56 ... | 25.51 ... | 8 ... | 15.00 ... | 18.48 ... | 32.38 ... |
| 7 ... | 11.85 ... | 14.65 ... | 25.67 ... | 7 ... | 15.08 ... | 18.58 ... | 32.56 ... |
| 6 ... | 11.92 ... | 14.74 ... | 25.83 ... | 6 ... | 15.17 ... | 18.68 ... | 32.73 ... |
| 5 ... | 12.00 ... | 14.84 ... | 26.00 ... | 5 ... | 15.25 ... | 18.78 ... | 32.91 ... |
| 4 ... | 12.08 ... | 14.93 ... | 26.17 ... | 4 ... | 15.33 ... | 18.88 ... | 33.08 ... |
| 3 ... | 12.15 ... | 15.02 ... | 26.33 ... | 3 ... | 15.42 ... | 18.98 ... | 33.26 ... |
| 2 ... | 12.23 ... | 15.12 ... | 26.49 ... | 2 ... | 15.50 ... | 19.08 ... | 33.44 ... |
| 1 ... | 11.31 ... | 15.21 ... | 26.66 ... | 1 ... | 15.58 ... | 19.18 ... | 33.61 ... |
| 0 ... | 12.38 ... | 15.30 ... | 26.82 ... | 0 ... | 15.67 ... | 19.28 ... | 33.79 ... |
| '9909 ... | 12.46 ... | 15.40 ... | 26.99 ... | '9769 ... | 15.75 ... | 19.39 ... | 33.96 ... |
| 8 ... | 12.54 ... | 15.49 ... | 27.15 ... | 8 ... | 15.83 ... | 19.49 ... | 34.14 ... |
| 7 ... | 12.62 ... | 15.59 ... | 27.31 ... | 7 ... | 15.92 ... | 19.59 ... | 34.32 ... |
| 6 ... | 12.69 ... | 15.68 ... | 27.48 ... | 6 ... | 16.00 ... | 19.68 ... | 34.50 ... |
| 5 ... | 12.77 ... | 15.77 ... | 27.64 ... | 5 ... | 16.08 ... | 19.78 ... | 34.66 ... |
| 4 ... | 12.85 ... | 15.86 ... | 27.81 ... | 4 ... | 16.15 ... | 19.87 ... | 34.82 ... |
| 3 ... | 12.92 ... | 15.96 ... | 27.97 ... | 3 ... | 16.23 ... | 19.96 ... | 34.98 ... |
| 2 ... | 13.00 ... | 16.05 ... | 28.13 ... | 2 ... | 16.31 ... | 20.06 ... | 35.14 ... |
| 1 ... | 13.08 ... | 16.15 ... | 28.29 ... | 1 ... | 16.38 ... | 20.15 ... | 35.31 ... |
| 0 ... | 13.15 ... | 16.24 ... | 28.46 ... | 0 ... | 16.46 ... | 20.24 ... | 35.47 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| .9750 | 16.84 | 20.38 | 35.68 | .9710 | 19.75 | 24.18 | 42.26 |
| 8 | 16.82 | 20.43 | 35.79 | 8 | 19.83 | 24.28 | 42.55 |
| 7 | 16.80 | 20.53 | 35.95 | 7 | 19.92 | 24.38 | 42.78 |
| 6 | 16.77 | 20.61 | 36.12 | 6 | 20.00 | 24.48 | 43.00 |
| 5 | 16.85 | 20.71 | 36.28 | 5 | 20.08 | 24.58 | 43.07 |
| 4 | 16.93 | 20.80 | 36.44 | 4 | 20.17 | 24.68 | 43.25 |
| 3 | 17.00 | 20.89 | 36.60 | 3 | 20.25 | 24.78 | 43.42 |
| 2 | 17.08 | 20.99 | 36.78 | 2 | 20.33 | 24.88 | 43.60 |
| 1 | 17.17 | 21.09 | 36.95 | 1 | 20.42 | 24.98 | 43.77 |
| 0 | 17.25 | 21.19 | 37.13 | 0 | 20.50 | 25.07 | 43.94 |
| .9740 | 17.23 | 21.29 | 37.30 | .9700 | 20.58 | 25.17 | 44.12 |
| 8 | 17.42 | 21.39 | 37.48 | 8 | 20.68 | 25.27 | 44.39 |
| 7 | 17.50 | 21.49 | 37.65 | 7 | 20.75 | 25.37 | 44.47 |
| 6 | 17.58 | 21.59 | 37.83 | 6 | 20.83 | 25.47 | 44.64 |
| 5 | 17.67 | 21.69 | 38.00 | 5 | 20.92 | 25.57 | 44.81 |
| 4 | 17.75 | 21.79 | 38.18 | 4 | 21.00 | 25.67 | 44.99 |
| 3 | 17.83 | 21.89 | 38.35 | 3 | 21.08 | 25.76 | 45.15 |
| 2 | 17.92 | 21.99 | 38.53 | 2 | 21.15 | 25.86 | 45.31 |
| 1 | 18.00 | 22.09 | 38.71 | 1 | 21.23 | 25.95 | 45.47 |
| 0 | 18.08 | 22.18 | 38.87 | 0 | 21.31 | 26.04 | 45.63 |
| .9730 | 18.15 | 22.27 | 39.03 | .9690 | 21.38 | 26.13 | 45.79 |
| 8 | 18.23 | 22.36 | 39.13 | 8 | 21.46 | 26.23 | 45.95 |
| 7 | 18.31 | 22.46 | 39.25 | 7 | 21.54 | 26.31 | 46.11 |
| 6 | 18.38 | 22.55 | 39.51 | 6 | 21.62 | 26.40 | 46.27 |
| 5 | 18.46 | 22.64 | 39.68 | 5 | 21.69 | 26.49 | 46.43 |
| 4 | 18.54 | 22.73 | 39.84 | 4 | 21.77 | 26.58 | 46.59 |
| 3 | 18.62 | 22.82 | 40.00 | 3 | 21.85 | 26.67 | 46.75 |
| 2 | 18.69 | 22.92 | 40.16 | 2 | 21.92 | 26.77 | 46.91 |
| 1 | 18.77 | 23.01 | 40.32 | 1 | 22.00 | 26.86 | 47.07 |
| 0 | 18.85 | 23.10 | 40.48 | 0 | 22.08 | 26.95 | 47.23 |
| .9720 | 18.93 | 23.19 | 40.64 | .9680 | 22.15 | 27.04 | 47.39 |
| 8 | 19.00 | 23.28 | 40.80 | 8 | 22.23 | 27.13 | 47.55 |
| 7 | 19.08 | 23.38 | 40.96 | 7 | 22.31 | 27.22 | 47.70 |
| 6 | 19.17 | 23.48 | 41.15 | 6 | 22.38 | 27.31 | 47.86 |
| 5 | 19.25 | 23.58 | 41.33 | 5 | 22.46 | 27.40 | 48.02 |
| 4 | 19.33 | 23.68 | 41.50 | 4 | 22.54 | 27.49 | 48.18 |
| 3 | 19.42 | 23.78 | 41.68 | 3 | 22.62 | 27.59 | 48.34 |
| 2 | 19.50 | 23.88 | 41.85 | 2 | 22.69 | 27.68 | 48.50 |
| 1 | 19.58 | 23.98 | 42.03 | 1 | 22.77 | 27.77 | 48.66 |
| 0 | 19.67 | 24.08 | 42.20 | 0 | 22.85 | 27.86 | 48.82 |

ALCOHOL TABLES.

| Specific Gravity at 60° F. 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F. 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|-------------------------------------|-----------------------------|-----------------------------|----------------|-------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 0.979 | 22.92 | 27.95 | 49.98 | 0.989 | 25.92 | 31.48 | 55.15 |
| 8 | 23.00 | 28.04 | 49.14 | 8 | 26.00 | 31.57 | 55.23 |
| 7 | 23.08 | 28.13 | 49.30 | 7 | 26.07 | 31.65 | 55.48 |
| 6 | 23.15 | 28.23 | 49.46 | 6 | 26.13 | 31.73 | 55.59 |
| 5 | 23.23 | 28.31 | 49.62 | 5 | 26.20 | 31.80 | 55.73 |
| 4 | 23.31 | 28.41 | 49.78 | 4 | 26.27 | 31.88 | 55.87 |
| 3 | 23.38 | 28.50 | 49.94 | 3 | 26.33 | 31.95 | 56.00 |
| 2 | 23.46 | 28.59 | 50.10 | 2 | 26.40 | 32.03 | 56.14 |
| 1 | 23.54 | 28.68 | 50.25 | 1 | 26.47 | 32.11 | 56.27 |
| 0 | 23.62 | 28.77 | 50.41 | 0 | 26.53 | 32.19 | 56.41 |
| 0.989 | 23.69 | 28.86 | 50.57 | 0.989 | 26.60 | 32.27 | 56.55 |
| 8 | 23.77 | 28.95 | 50.73 | 8 | 26.67 | 32.34 | 56.68 |
| 7 | 23.85 | 29.04 | 50.89 | 7 | 26.73 | 32.43 | 56.82 |
| 6 | 23.92 | 29.13 | 51.05 | 6 | 26.80 | 32.50 | 56.95 |
| 5 | 24.00 | 29.23 | 51.21 | 5 | 26.87 | 32.58 | 57.09 |
| 4 | 24.08 | 29.31 | 51.37 | 4 | 26.93 | 32.65 | 57.23 |
| 3 | 24.15 | 29.40 | 51.53 | 3 | 27.00 | 32.73 | 57.36 |
| 2 | 24.23 | 29.49 | 51.69 | 2 | 27.07 | 32.81 | 57.51 |
| 1 | 24.31 | 29.58 | 51.84 | 1 | 27.14 | 32.90 | 57.65 |
| 0 | 24.38 | 29.67 | 52.00 | 0 | 27.21 | 32.98 | 57.80 |
| 0.989 | 24.46 | 29.76 | 52.16 | 0.989 | 27.29 | 33.06 | 57.94 |
| 8 | 24.54 | 29.86 | 52.32 | 8 | 27.36 | 33.15 | 58.09 |
| 7 | 24.62 | 29.95 | 52.48 | 7 | 27.43 | 33.23 | 58.24 |
| 6 | 24.69 | 30.04 | 52.64 | 6 | 27.50 | 33.31 | 58.38 |
| 5 | 24.77 | 30.13 | 52.80 | 5 | 27.57 | 33.39 | 58.53 |
| 4 | 24.85 | 30.23 | 52.95 | 4 | 27.64 | 33.48 | 58.67 |
| 3 | 24.92 | 30.31 | 53.11 | 3 | 27.71 | 33.56 | 58.82 |
| 2 | 25.00 | 30.40 | 53.27 | 2 | 27.79 | 33.64 | 58.97 |
| 1 | 25.07 | 30.48 | 53.42 | 1 | 27.86 | 33.73 | 59.11 |
| 0 | 25.14 | 30.57 | 53.58 | 0 | 27.93 | 33.81 | 59.26 |
| 0.989 | 25.21 | 30.65 | 53.71 | 0.989 | 28.00 | 33.89 | 59.40 |
| 8 | 25.29 | 30.73 | 53.86 | 8 | 28.06 | 33.97 | 59.53 |
| 7 | 25.36 | 30.82 | 54.00 | 7 | 28.12 | 34.04 | 59.65 |
| 6 | 25.43 | 30.90 | 54.15 | 6 | 28.19 | 34.11 | 59.78 |
| 5 | 25.50 | 30.98 | 54.30 | 5 | 28.25 | 34.18 | 59.90 |
| 4 | 25.57 | 31.07 | 54.44 | 4 | 28.31 | 34.25 | 60.03 |
| 3 | 25.64 | 31.15 | 54.59 | 3 | 28.37 | 34.33 | 60.16 |
| 2 | 25.71 | 31.23 | 54.74 | 2 | 28.44 | 34.40 | 60.28 |
| 1 | 25.79 | 31.32 | 54.88 | 1 | 28.50 | 34.47 | 60.41 |
| 0 | 25.86 | 31.40 | 55.03 | 0 | 28.56 | 34.54 | 60.53 |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 9599 ... | 28.62 ... | 34.61 ... | 60.66 ... | 9599 ... | 31.06 ... | 37.41 ... | 65.55 ... |
| 8 ... | 28.69 ... | 34.69 ... | 60.70 ... | 8 ... | 31.12 ... | 37.49 ... | 65.68 ... |
| 7 ... | 28.75 ... | 34.76 ... | 60.91 ... | 7 ... | 31.19 ... | 37.55 ... | 65.80 ... |
| 6 ... | 28.81 ... | 34.83 ... | 61.04 ... | 6 ... | 31.25 ... | 37.62 ... | 65.93 ... |
| 5 ... | 28.87 ... | 34.90 ... | 61.16 ... | 5 ... | 31.31 ... | 37.69 ... | 66.05 ... |
| 4 ... | 28.94 ... | 34.97 ... | 61.29 ... | 4 ... | 31.37 ... | 37.76 ... | 66.18 ... |
| 3 ... | 29.00 ... | 35.05 ... | 61.41 ... | 3 ... | 31.44 ... | 37.83 ... | 66.30 ... |
| 2 ... | 29.07 ... | 35.12 ... | 61.55 ... | 2 ... | 31.50 ... | 37.90 ... | 66.43 ... |
| 1 ... | 29.13 ... | 35.20 ... | 61.69 ... | 1 ... | 31.56 ... | 37.97 ... | 66.55 ... |
| 0 ... | 29.20 ... | 35.28 ... | 61.82 ... | 0 ... | 31.62 ... | 38.04 ... | 66.68 ... |
| 9599 ... | 29.27 ... | 35.35 ... | 61.95 ... | 9599 ... | 31.69 ... | 38.11 ... | 66.80 ... |
| 8 ... | 29.33 ... | 35.43 ... | 62.09 ... | 8 ... | 31.75 ... | 38.18 ... | 66.93 ... |
| 7 ... | 29.40 ... | 35.51 ... | 62.23 ... | 7 ... | 31.81 ... | 38.25 ... | 67.05 ... |
| 6 ... | 29.47 ... | 35.58 ... | 62.36 ... | 6 ... | 31.87 ... | 38.33 ... | 67.17 ... |
| 5 ... | 29.53 ... | 35.66 ... | 62.49 ... | 5 ... | 31.94 ... | 38.40 ... | 67.30 ... |
| 4 ... | 29.60 ... | 35.74 ... | 62.63 ... | 4 ... | 32.00 ... | 38.47 ... | 67.42 ... |
| 3 ... | 29.67 ... | 35.81 ... | 62.76 ... | 3 ... | 32.06 ... | 38.53 ... | 67.55 ... |
| 2 ... | 29.73 ... | 35.89 ... | 62.90 ... | 2 ... | 32.12 ... | 38.60 ... | 67.67 ... |
| 1 ... | 29.80 ... | 35.97 ... | 63.03 ... | 1 ... | 32.18 ... | 38.68 ... | 67.80 ... |
| 0 ... | 29.87 ... | 36.04 ... | 63.17 ... | 0 ... | 32.25 ... | 38.75 ... | 67.92 ... |
| 9599 ... | 29.93 ... | 36.12 ... | 63.30 ... | 9599 ... | 32.31 ... | 38.83 ... | 68.04 ... |
| 8 ... | 30.00 ... | 36.20 ... | 63.43 ... | 8 ... | 32.37 ... | 38.89 ... | 68.17 ... |
| 7 ... | 30.06 ... | 36.26 ... | 63.55 ... | 7 ... | 32.44 ... | 38.96 ... | 68.29 ... |
| 6 ... | 30.11 ... | 36.32 ... | 63.66 ... | 6 ... | 32.50 ... | 39.04 ... | 68.42 ... |
| 5 ... | 30.17 ... | 36.39 ... | 63.77 ... | 5 ... | 32.56 ... | 39.11 ... | 68.54 ... |
| 4 ... | 30.22 ... | 36.45 ... | 63.88 ... | 4 ... | 32.62 ... | 39.18 ... | 68.67 ... |
| 3 ... | 30.28 ... | 36.51 ... | 63.99 ... | 3 ... | 32.69 ... | 39.25 ... | 68.79 ... |
| 2 ... | 30.33 ... | 36.57 ... | 64.10 ... | 2 ... | 32.75 ... | 39.32 ... | 68.92 ... |
| 1 ... | 30.39 ... | 36.64 ... | 64.21 ... | 1 ... | 32.81 ... | 39.40 ... | 69.04 ... |
| 0 ... | 30.44 ... | 36.70 ... | 64.32 ... | 0 ... | 32.87 ... | 39.47 ... | 69.16 ... |
| 9599 ... | 30.50 ... | 36.76 ... | 64.43 ... | 9599 ... | 32.94 ... | 39.54 ... | 69.29 ... |
| 8 ... | 30.56 ... | 36.83 ... | 64.54 ... | 8 ... | 33.00 ... | 39.61 ... | 69.41 ... |
| 7 ... | 30.61 ... | 36.89 ... | 64.65 ... | 7 ... | 33.06 ... | 39.68 ... | 69.53 ... |
| 6 ... | 30.67 ... | 36.95 ... | 64.76 ... | 6 ... | 33.12 ... | 39.74 ... | 69.65 ... |
| 5 ... | 30.72 ... | 37.02 ... | 64.87 ... | 5 ... | 33.18 ... | 39.81 ... | 69.76 ... |
| 4 ... | 30.78 ... | 37.08 ... | 64.98 ... | 4 ... | 33.24 ... | 39.87 ... | 69.88 ... |
| 3 ... | 30.83 ... | 37.14 ... | 65.10 ... | 3 ... | 33.29 ... | 39.94 ... | 69.99 ... |
| 2 ... | 30.89 ... | 37.20 ... | 65.21 ... | 2 ... | 33.35 ... | 40.01 ... | 70.11 ... |
| 1 ... | 30.94 ... | 37.27 ... | 65.32 ... | 1 ... | 33.41 ... | 40.07 ... | 70.23 ... |
| 0 ... | 31.00 ... | 37.34 ... | 65.43 ... | 0 ... | 33.47 ... | 40.14 ... | 70.34 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| •8519 | 33.53 | 40.39 | 70.46 | •8479 | 35.55 | 43.45 | 74.39 |
| 8 | 33.59 | 40.37 | 70.57 | 8 | 35.60 | 43.51 | 74.49 |
| 7 | 33.65 | 40.34 | 70.69 | 7 | 35.65 | 43.56 | 74.59 |
| 6 | 33.71 | 40.40 | 70.81 | 6 | 35.70 | 43.62 | 74.68 |
| 5 | 33.76 | 40.47 | 70.92 | 5 | 35.75 | 43.67 | 74.78 |
| 4 | 33.82 | 40.53 | 71.04 | 4 | 35.80 | 43.73 | 74.88 |
| 3 | 33.88 | 40.60 | 71.15 | 3 | 35.85 | 43.78 | 74.97 |
| 2 | 33.94 | 40.67 | 71.27 | 2 | 35.90 | 43.84 | 75.07 |
| 1 | 34.00 | 40.74 | 71.39 | 1 | 35.95 | 43.89 | 75.17 |
| 0 | 34.05 | 40.79 | 71.48 | 0 | 36.00 | 43.95 | 75.26 |
| •8599 | 34.16 | 40.84 | 71.58 | •8499 | 36.06 | 43.91 | 75.37 |
| 8 | 34.14 | 40.90 | 71.67 | 8 | 36.11 | 43.97 | 75.48 |
| 7 | 34.19 | 40.95 | 71.76 | 7 | 36.17 | 43.13 | 75.59 |
| 6 | 34.24 | 41.00 | 71.85 | 6 | 36.22 | 43.19 | 75.70 |
| 5 | 34.29 | 41.05 | 71.94 | 5 | 36.28 | 43.26 | 75.80 |
| 4 | 34.33 | 41.11 | 72.04 | 4 | 36.33 | 43.32 | 75.91 |
| 3 | 34.38 | 41.16 | 72.13 | 3 | 36.39 | 43.38 | 76.02 |
| 2 | 34.43 | 41.21 | 72.23 | 2 | 36.44 | 43.44 | 76.13 |
| 1 | 34.48 | 41.26 | 72.31 | 1 | 36.50 | 43.50 | 76.24 |
| 0 | 34.52 | 41.32 | 72.41 | 0 | 36.56 | 43.56 | 76.34 |
| •8499 | 34.57 | 41.37 | 72.50 | •8459 | 36.61 | 43.63 | 76.45 |
| 8 | 34.62 | 41.42 | 72.59 | 8 | 36.67 | 43.69 | 76.56 |
| 7 | 34.67 | 41.48 | 72.68 | 7 | 36.72 | 43.75 | 76.67 |
| 6 | 34.71 | 41.53 | 72.78 | 6 | 36.78 | 43.81 | 76.78 |
| 5 | 34.76 | 41.58 | 72.87 | 5 | 36.83 | 43.87 | 76.88 |
| 4 | 34.81 | 41.63 | 72.96 | 4 | 36.89 | 43.93 | 76.99 |
| 3 | 34.86 | 41.69 | 73.05 | 3 | 36.94 | 44.00 | 77.10 |
| 2 | 34.90 | 41.74 | 73.14 | 2 | 37.00 | 44.06 | 77.21 |
| 1 | 34.95 | 41.79 | 73.24 | 1 | 37.06 | 44.12 | 77.32 |
| 0 | 35.00 | 41.84 | 73.33 | 0 | 37.11 | 44.18 | 77.42 |
| •8499 | 35.05 | 41.90 | 73.43 | •8449 | 37.17 | 44.24 | 77.53 |
| 8 | 35.10 | 41.95 | 73.52 | 8 | 37.22 | 44.30 | 77.64 |
| 7 | 35.15 | 42.01 | 73.62 | 7 | 37.28 | 44.36 | 77.75 |
| 6 | 35.20 | 42.06 | 73.72 | 6 | 37.33 | 44.43 | 77.85 |
| 5 | 35.25 | 42.12 | 73.81 | 5 | 37.39 | 44.49 | 77.96 |
| 4 | 35.30 | 42.17 | 73.91 | 4 | 37.44 | 44.55 | 78.07 |
| 3 | 35.35 | 42.23 | 74.01 | 3 | 37.50 | 44.61 | 78.18 |
| 2 | 35.40 | 42.29 | 74.10 | 2 | 37.56 | 44.67 | 78.28 |
| 1 | 35.45 | 42.34 | 74.20 | 1 | 37.61 | 44.73 | 78.39 |
| 0 | 35.50 | 42.40 | 74.30 | 0 | 37.67 | 44.79 | 78.50 |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 0459 ... | 37.73 ... | 44.86 ... | 75.61 ... | 0899 ... | 39.95 ... | 47.18 ... | 82.65 ... |
| 8 ... | 37.78 ... | 44.92 ... | 75.71 ... | 8 ... | 39.90 ... | 47.24 ... | 82.73 ... |
| 7 ... | 37.83 ... | 44.98 ... | 75.83 ... | 7 ... | 39.95 ... | 47.29 ... | 82.88 ... |
| 6 ... | 37.89 ... | 45.04 ... | 75.93 ... | 6 ... | 40.00 ... | 47.35 ... | 82.97 ... |
| 5 ... | 37.94 ... | 45.10 ... | 76.04 ... | 5 ... | 40.05 ... | 47.40 ... | 83.07 ... |
| 4 ... | 37.00 ... | 45.16 ... | 76.14 ... | 4 ... | 40.10 ... | 47.45 ... | 83.16 ... |
| 3 ... | 38.06 ... | 45.22 ... | 76.25 ... | 3 ... | 40.15 ... | 47.51 ... | 83.26 ... |
| 2 ... | 38.11 ... | 45.28 ... | 76.36 ... | 2 ... | 40.20 ... | 47.56 ... | 83.35 ... |
| 1 ... | 38.17 ... | 45.34 ... | 76.46 ... | 1 ... | 40.25 ... | 47.62 ... | 83.45 ... |
| 0 ... | 38.22 ... | 45.41 ... | 76.57 ... | 0 ... | 40.30 ... | 47.67 ... | 83.54 ... |
| 0469 ... | 38.28 ... | 45.47 ... | 76.68 ... | 0899 ... | 40.35 ... | 47.73 ... | 83.64 ... |
| 8 ... | 38.33 ... | 45.53 ... | 76.79 ... | 8 ... | 40.40 ... | 47.78 ... | 83.73 ... |
| 7 ... | 38.39 ... | 45.59 ... | 76.89 ... | 7 ... | 40.45 ... | 47.83 ... | 83.83 ... |
| 6 ... | 38.44 ... | 45.65 ... | 80.00 ... | 6 ... | 40.50 ... | 47.89 ... | 83.93 ... |
| 5 ... | 38.50 ... | 45.71 ... | 80.11 ... | 5 ... | 40.55 ... | 47.94 ... | 84.03 ... |
| 4 ... | 38.56 ... | 45.77 ... | 80.21 ... | 4 ... | 40.60 ... | 47.99 ... | 84.11 ... |
| 3 ... | 38.61 ... | 45.83 ... | 80.32 ... | 3 ... | 40.65 ... | 48.05 ... | 84.21 ... |
| 2 ... | 38.67 ... | 45.89 ... | 80.43 ... | 2 ... | 40.70 ... | 48.10 ... | 84.30 ... |
| 1 ... | 38.72 ... | 45.95 ... | 80.53 ... | 1 ... | 40.75 ... | 48.16 ... | 84.39 ... |
| 0 ... | 38.78 ... | 46.02 ... | 80.64 ... | 0 ... | 40.80 ... | 48.21 ... | 84.49 ... |
| 0479 ... | 38.83 ... | 46.08 ... | 80.75 ... | 0899 ... | 40.85 ... | 48.26 ... | 84.58 ... |
| 8 ... | 38.89 ... | 46.14 ... | 80.86 ... | 8 ... | 40.90 ... | 48.32 ... | 84.68 ... |
| 7 ... | 38.94 ... | 46.20 ... | 80.96 ... | 7 ... | 40.95 ... | 48.37 ... | 84.77 ... |
| 6 ... | 39.00 ... | 46.26 ... | 81.07 ... | 6 ... | 41.00 ... | 48.43 ... | 84.87 ... |
| 5 ... | 39.05 ... | 46.31 ... | 81.17 ... | 5 ... | 41.05 ... | 48.48 ... | 84.96 ... |
| 4 ... | 39.10 ... | 46.37 ... | 81.26 ... | 4 ... | 41.10 ... | 48.54 ... | 85.06 ... |
| 3 ... | 39.15 ... | 46.43 ... | 81.36 ... | 3 ... | 41.15 ... | 48.59 ... | 85.15 ... |
| 2 ... | 39.20 ... | 46.48 ... | 81.45 ... | 2 ... | 41.20 ... | 48.64 ... | 85.24 ... |
| 1 ... | 39.25 ... | 46.53 ... | 81.55 ... | 1 ... | 41.25 ... | 48.70 ... | 85.34 ... |
| 0 ... | 39.30 ... | 46.59 ... | 81.64 ... | 0 ... | 41.30 ... | 48.75 ... | 85.43 ... |
| 0489 ... | 39.35 ... | 46.64 ... | 81.74 ... | 0899 ... | 41.35 ... | 48.80 ... | 85.53 ... |
| 8 ... | 39.40 ... | 46.70 ... | 81.83 ... | 8 ... | 41.40 ... | 48.86 ... | 85.62 ... |
| 7 ... | 39.45 ... | 46.75 ... | 81.93 ... | 7 ... | 41.45 ... | 48.91 ... | 85.71 ... |
| 6 ... | 39.50 ... | 46.80 ... | 82.02 ... | 6 ... | 41.50 ... | 48.97 ... | 85.81 ... |
| 5 ... | 39.55 ... | 46.86 ... | 82.12 ... | 5 ... | 41.55 ... | 49.02 ... | 85.90 ... |
| 4 ... | 39.60 ... | 46.91 ... | 82.21 ... | 4 ... | 41.60 ... | 49.07 ... | 86.00 ... |
| 3 ... | 39.65 ... | 46.97 ... | 82.31 ... | 3 ... | 41.65 ... | 49.13 ... | 86.09 ... |
| 2 ... | 39.70 ... | 47.02 ... | 82.40 ... | 2 ... | 41.70 ... | 49.18 ... | 86.18 ... |
| 1 ... | 39.75 ... | 47.08 ... | 82.50 ... | 1 ... | 41.75 ... | 49.23 ... | 86.28 ... |
| 0 ... | 39.80 ... | 47.13 ... | 82.59 ... | 0 ... | 41.80 ... | 49.29 ... | 86.37 ... |

U.S.
dist.
60°
0.0
15

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 9859 | 41.85 | 49.34 | 86.47 | 9819 | 43.76 | 51.38 | 90.03 |
| 8 | 41.90 | 49.40 | 86.56 | 8 | 43.81 | 51.43 | 90.12 |
| 7 | 41.95 | 49.45 | 86.65 | 7 | 43.86 | 51.48 | 90.21 |
| 6 | 42.00 | 49.50 | 86.75 | 6 | 43.90 | 51.53 | 90.30 |
| 5 | 42.05 | 49.55 | 86.84 | 5 | 43.95 | 51.58 | 90.39 |
| 4 | 42.10 | 49.61 | 86.93 | 4 | 44.00 | 51.63 | 90.48 |
| 3 | 42.14 | 49.66 | 87.02 | 3 | 44.05 | 51.68 | 90.56 |
| 2 | 42.19 | 49.71 | 87.11 | 2 | 44.09 | 51.72 | 90.64 |
| 1 | 42.24 | 49.76 | 87.20 | 1 | 44.14 | 51.77 | 90.73 |
| 0 | 42.29 | 49.81 | 87.29 | 0 | 44.18 | 51.82 | 90.81 |
| 9849 | 42.33 | 49.86 | 87.37 | 9809 | 44.23 | 51.87 | 90.89 |
| 8 | 42.38 | 49.91 | 87.46 | 8 | 44.27 | 51.91 | 90.98 |
| 7 | 42.43 | 49.96 | 87.55 | 7 | 44.32 | 51.96 | 91.06 |
| 6 | 42.48 | 50.01 | 87.64 | 6 | 44.36 | 52.01 | 91.14 |
| 5 | 42.52 | 50.06 | 87.73 | 5 | 44.41 | 52.06 | 91.23 |
| 4 | 42.57 | 50.11 | 87.82 | 4 | 44.46 | 52.10 | 91.31 |
| 3 | 42.62 | 50.16 | 87.91 | 3 | 44.50 | 52.15 | 91.39 |
| 2 | 42.67 | 50.21 | 88.00 | 2 | 44.55 | 52.20 | 91.48 |
| 1 | 42.71 | 50.26 | 88.09 | 1 | 44.59 | 52.25 | 91.56 |
| 0 | 42.76 | 50.31 | 88.18 | 0 | 44.64 | 52.29 | 91.64 |
| 9839 | 42.81 | 50.37 | 88.26 | 9809 | 44.68 | 52.34 | 91.72 |
| 8 | 42.86 | 50.42 | 88.35 | 8 | 44.73 | 52.39 | 91.81 |
| 7 | 42.90 | 50.47 | 88.44 | 7 | 44.77 | 52.44 | 91.90 |
| 6 | 42.95 | 50.52 | 88.53 | 6 | 44.82 | 52.48 | 91.98 |
| 5 | 43.00 | 50.57 | 88.62 | 5 | 44.86 | 52.53 | 92.06 |
| 4 | 43.05 | 50.62 | 88.71 | 4 | 44.91 | 52.58 | 92.15 |
| 3 | 43.10 | 50.67 | 88.79 | 3 | 44.96 | 52.63 | 92.23 |
| 2 | 43.14 | 50.72 | 88.88 | 2 | 45.00 | 52.68 | 92.31 |
| 1 | 43.19 | 50.77 | 88.97 | 1 | 45.05 | 52.72 | 92.40 |
| 0 | 43.24 | 50.82 | 89.06 | 0 | 45.09 | 52.77 | 92.48 |
| 9829 | 43.29 | 50.87 | 89.15 | 9809 | 45.14 | 52.82 | 92.56 |
| 8 | 43.33 | 50.92 | 89.24 | 8 | 45.18 | 52.87 | 92.64 |
| 7 | 43.39 | 50.97 | 89.33 | 7 | 45.23 | 52.91 | 92.73 |
| 6 | 43.43 | 51.02 | 89.41 | 6 | 45.27 | 52.96 | 92.81 |
| 5 | 43.48 | 51.07 | 89.50 | 5 | 45.32 | 53.01 | 92.89 |
| 4 | 43.52 | 51.12 | 89.59 | 4 | 45.36 | 53.06 | 92.98 |
| 3 | 43.57 | 51.17 | 89.68 | 3 | 45.41 | 53.10 | 93.06 |
| 2 | 43.62 | 51.22 | 89.77 | 2 | 45.46 | 53.15 | 93.14 |
| 1 | 43.67 | 51.27 | 89.86 | 1 | 45.50 | 53.20 | 93.23 |
| 0 | 43.71 | 51.32 | 89.95 | 0 | 45.55 | 53.24 | 93.31 |

U.S. prove
but points
to 0.936 at
15.5° C.

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|--------------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| per cent. | per cent. | per cent. | per cent. | per cent. | per cent. | per cent. | per cent. |
| 9270 ... 45.59 ... | 53.29 ... | 93.59 ... | 9280 ... 47.41 ... | 55.18 ... | 96.79 ... | | |
| 8 ... 45.64 ... | 53.34 ... | 93.48 ... | 8 ... 47.46 ... | 55.23 ... | 96.78 ... | | |
| 7 ... 45.68 ... | 53.39 ... | 93.56 ... | 7 ... 47.50 ... | 55.27 ... | 96.86 ... | | |
| 6 ... 45.73 ... | 53.43 ... | 93.64 ... | 6 ... 47.55 ... | 55.32 ... | 96.95 ... | | |
| 5 ... 45.77 ... | 53.48 ... | 93.73 ... | 5 ... 47.59 ... | 55.37 ... | 97.03 ... | | |
| 4 ... 45.82 ... | 53.53 ... | 93.81 ... | 4 ... 47.64 ... | 55.41 ... | 97.11 ... | | |
| 3 ... 45.86 ... | 53.58 ... | 93.89 ... | 3 ... 47.68 ... | 55.46 ... | 97.19 ... | | |
| 2 ... 45.91 ... | 53.62 ... | 93.98 ... | 2 ... 47.73 ... | 55.51 ... | 97.27 ... | | |
| 1 ... 45.96 ... | 53.67 ... | 94.06 ... | 1 ... 47.77 ... | 55.55 ... | 97.36 ... | | |
| 0 ... 46.00 ... | 53.72 ... | 94.14 ... | 0 ... 47.82 ... | 55.60 ... | 97.44 ... | | |
| 9290 ... 46.05 ... | 53.77 ... | 94.23 ... | 9299 ... 47.86 ... | 55.65 ... | 97.53 ... | | |
| 8 ... 46.09 ... | 53.81 ... | 94.31 ... | 8 ... 47.91 ... | 55.69 ... | 97.60 ... | | |
| 7 ... 46.14 ... | 53.86 ... | 94.39 ... | 7 ... 47.96 ... | 55.74 ... | 97.68 ... | | |
| 6 ... 46.18 ... | 53.91 ... | 94.47 ... | 6 ... 48.00 ... | 55.79 ... | 97.77 ... | | |
| 5 ... 46.23 ... | 53.95 ... | 94.55 ... | 5 ... 48.05 ... | 55.83 ... | 97.85 ... | | |
| 4 ... 46.27 ... | 54.00 ... | 94.64 ... | 4 ... 48.09 ... | 55.88 ... | 97.93 ... | | |
| 3 ... 46.32 ... | 54.05 ... | 94.72 ... | 3 ... 48.14 ... | 55.93 ... | 98.01 ... | | |
| 2 ... 46.36 ... | 54.10 ... | 94.80 ... | 2 ... 48.18 ... | 55.97 ... | 98.09 ... | | |
| 1 ... 46.41 ... | 54.14 ... | 94.89 ... | 1 ... 48.23 ... | 56.02 ... | 98.18 ... | | |
| 0 ... 46.46 ... | 54.19 ... | 94.97 ... | 0 ... 48.27 ... | 56.07 ... | 98.26 ... | | |
| 9259 ... 46.50 ... | 54.24 ... | 95.05 ... | 9219 ... 48.32 ... | 56.11 ... | 98.34 ... | | |
| 8 ... 46.55 ... | 54.29 ... | 95.13 ... | 8 ... 48.36 ... | 56.16 ... | 98.42 ... | | |
| 7 ... 46.59 ... | 54.33 ... | 95.22 ... | 7 ... 48.41 ... | 56.21 ... | 98.50 ... | | |
| 6 ... 46.64 ... | 54.38 ... | 95.30 ... | 6 ... 48.46 ... | 56.25 ... | 98.59 ... | | |
| 5 ... 46.68 ... | 54.43 ... | 95.38 ... | 5 ... 48.50 ... | 56.30 ... | 98.67 ... | | |
| 4 ... 46.73 ... | 54.47 ... | 95.46 ... | 4 ... 48.55 ... | 56.35 ... | 98.75 ... | | |
| 3 ... 46.77 ... | 54.52 ... | 95.55 ... | 3 ... 48.59 ... | 56.40 ... | 98.83 ... | | |
| 2 ... 46.82 ... | 54.57 ... | 95.63 ... | 2 ... 48.64 ... | 56.44 ... | 98.91 ... | | |
| 1 ... 46.86 ... | 54.62 ... | 95.71 ... | 1 ... 48.68 ... | 56.49 ... | 99.00 ... | | |
| 0 ... 46.91 ... | 54.66 ... | 95.79 ... | 0 ... 48.73 ... | 56.54 ... | 99.08 ... | | |
| 9249 ... 46.96 ... | 54.71 ... | 95.88 ... | 9209 ... 48.77 ... | 56.58 ... | 99.16 ... | | |
| 8 ... 47.00 ... | 54.76 ... | 95.96 ... | 8 ... 48.82 ... | 56.63 ... | 99.24 ... | | |
| 7 ... 47.05 ... | 54.80 ... | 96.04 ... | 7 ... 48.86 ... | 56.68 ... | 99.32 ... | | |
| 6 ... 47.09 ... | 54.85 ... | 96.12 ... | 6 ... 48.91 ... | 56.72 ... | 99.41 ... | | |
| 5 ... 47.14 ... | 54.90 ... | 96.21 ... | 5 ... 48.96 ... | 56.77 ... | 99.49 ... | | |
| 4 ... 47.18 ... | 54.95 ... | 96.29 ... | 4 ... 49.00 ... | 56.82 ... | 99.57 ... | | |
| 3 ... 47.23 ... | 54.99 ... | 96.37 ... | 3 ... 49.04 ... | 56.86 ... | 99.64 ... | | |
| 2 ... 47.27 ... | 55.04 ... | 96.45 ... | 2 ... 49.08 ... | 56.90 ... | 99.71 ... | | |
| 1 ... 47.32 ... | 55.09 ... | 96.53 ... | 1 ... 49.12 ... | 56.94 ... | 99.78 ... | | |
| 0 ... 47.36 ... | 55.13 ... | 96.62 ... | 0 ... 49.16 ... | 56.98 ... | 99.86 ... | | |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 9199 ... | 49.30 ... | 57.03 ... | 99.93 ... | 9159 ... | 51.00 ... | 58.83 ... | 103.13 ... |
| Proof 8 ... | 49.34 ... | 57.06 ... | 100.00 ... | 8 ... | 51.04 ... | 58.89 ... | 103.20 ... |
| 7 ... | 49.29 ... | 57.10 ... | 100.08 ... | 7 ... | 51.08 ... | 58.93 ... | 103.27 ... |
| 6 ... | 49.34 ... | 57.15 ... | 100.17 ... | 6 ... | 51.13 ... | 58.97 ... | 103.34 ... |
| 5 ... | 49.39 ... | 57.20 ... | 100.25 ... | 5 ... | 51.17 ... | 59.01 ... | 103.41 ... |
| 4 ... | 49.44 ... | 57.25 ... | 100.34 ... | 4 ... | 51.21 ... | 59.05 ... | 103.49 ... |
| 3 ... | 49.49 ... | 57.30 ... | 100.42 ... | 3 ... | 51.25 ... | 59.09 ... | 103.56 ... |
| 2 ... | 49.54 ... | 57.35 ... | 100.51 ... | 2 ... | 51.29 ... | 59.14 ... | 103.63 ... |
| 1 ... | 49.59 ... | 57.40 ... | 100.59 ... | 1 ... | 51.33 ... | 59.18 ... | 103.71 ... |
| 0 ... | 49.64 ... | 57.45 ... | 100.68 ... | 0 ... | 51.38 ... | 59.22 ... | 103.78 ... |
| 9199 ... | 49.65 ... | 57.49 ... | 100.76 ... | 9149 ... | 51.43 ... | 59.26 ... | 103.85 ... |
| 8 ... | 49.73 ... | 57.54 ... | 100.85 ... | 8 ... | 51.46 ... | 59.30 ... | 103.92 ... |
| 7 ... | 49.77 ... | 57.59 ... | 100.93 ... | 7 ... | 51.50 ... | 59.34 ... | 104.00 ... |
| 6 ... | 49.82 ... | 57.64 ... | 101.02 ... | 6 ... | 51.54 ... | 59.39 ... | 104.07 ... |
| 5 ... | 49.86 ... | 57.69 ... | 101.10 ... | 5 ... | 51.58 ... | 59.43 ... | 104.14 ... |
| 4 ... | 49.91 ... | 57.74 ... | 101.19 ... | 4 ... | 51.63 ... | 59.47 ... | 104.21 ... |
| 3 ... | 49.95 ... | 57.79 ... | 101.27 ... | 3 ... | 51.67 ... | 59.51 ... | 104.29 ... |
| 2 ... | 50.00 ... | 57.84 ... | 101.36 ... | 2 ... | 51.71 ... | 59.55 ... | 104.36 ... |
| 1 ... | 50.04 ... | 57.89 ... | 101.43 ... | 1 ... | 51.75 ... | 59.59 ... | 104.43 ... |
| 0 ... | 50.09 ... | 58.92 ... | 101.51 ... | 0 ... | 51.79 ... | 59.63 ... | 104.50 ... |
| 9179 ... | 50.13 ... | 57.97 ... | 101.59 ... | 9139 ... | 51.83 ... | 59.68 ... | 104.58 ... |
| 8 ... | 50.17 ... | 58.01 ... | 101.66 ... | 8 ... | 51.88 ... | 59.72 ... | 104.65 ... |
| 7 ... | 50.22 ... | 58.06 ... | 101.74 ... | 7 ... | 51.92 ... | 59.76 ... | 104.72 ... |
| 6 ... | 50.26 ... | 58.10 ... | 101.82 ... | 6 ... | 51.96 ... | 59.80 ... | 104.80 ... |
| 5 ... | 50.30 ... | 58.14 ... | 101.89 ... | 5 ... | 52.00 ... | 59.84 ... | 104.87 ... |
| 4 ... | 50.35 ... | 58.19 ... | 101.97 ... | 4 ... | 52.05 ... | 59.89 ... | 104.95 ... |
| 3 ... | 50.39 ... | 58.23 ... | 102.05 ... | 3 ... | 52.09 ... | 59.93 ... | 105.03 ... |
| 2 ... | 50.43 ... | 58.28 ... | 102.12 ... | 2 ... | 52.14 ... | 59.98 ... | 105.11 ... |
| 1 ... | 50.48 ... | 58.32 ... | 102.20 ... | 1 ... | 52.18 ... | 60.02 ... | 105.19 ... |
| 0 ... | 50.52 ... | 58.36 ... | 102.28 ... | 0 ... | 52.23 ... | 60.07 ... | 105.27 ... |
| 9169 ... | 50.57 ... | 58.41 ... | 102.35 ... | 9129 ... | 52.27 ... | 60.12 ... | 105.35 ... |
| 8 ... | 50.61 ... | 58.45 ... | 102.43 ... | 8 ... | 52.32 ... | 60.16 ... | 105.43 ... |
| 7 ... | 50.65 ... | 58.50 ... | 102.51 ... | 7 ... | 52.36 ... | 60.21 ... | 105.51 ... |
| 6 ... | 50.70 ... | 58.54 ... | 102.59 ... | 6 ... | 52.41 ... | 60.25 ... | 105.59 ... |
| 5 ... | 50.74 ... | 58.58 ... | 102.66 ... | 5 ... | 52.45 ... | 60.30 ... | 105.67 ... |
| 4 ... | 50.78 ... | 58.63 ... | 102.74 ... | 4 ... | 52.50 ... | 60.34 ... | 105.75 ... |
| 3 ... | 50.83 ... | 58.67 ... | 102.82 ... | 3 ... | 52.55 ... | 60.39 ... | 105.83 ... |
| 2 ... | 50.87 ... | 58.72 ... | 102.89 ... | 2 ... | 52.59 ... | 60.44 ... | 105.91 ... |
| 1 ... | 50.91 ... | 58.76 ... | 102.97 ... | 1 ... | 52.64 ... | 60.47 ... | 105.99 ... |
| 0 ... | 50.96 ... | 58.80 ... | 103.05 ... | 0 ... | 52.68 ... | 60.52 ... | 106.07 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 5110 ... | 53.73 ... | 60.56 ... | 106.15 ... | 9070 ... | 54.52 ... | 62.86 ... | 109.28 ... |
| 8 ... | 53.77 ... | 60.61 ... | 106.23 ... | 8 ... | 54.57 ... | 62.91 ... | 109.37 ... |
| 7 ... | 53.83 ... | 60.65 ... | 106.31 ... | 7 ... | 54.62 ... | 62.95 ... | 109.45 ... |
| 6 ... | 53.86 ... | 60.70 ... | 106.39 ... | 6 ... | 54.67 ... | 62.99 ... | 109.53 ... |
| 5 ... | 53.91 ... | 60.74 ... | 106.47 ... | 5 ... | 54.71 ... | 63.03 ... | 109.62 ... |
| 4 ... | 53.95 ... | 60.79 ... | 106.55 ... | 4 ... | 54.76 ... | 63.07 ... | 109.70 ... |
| 3 ... | 53.99 ... | 60.83 ... | 106.63 ... | 3 ... | 54.81 ... | 63.11 ... | 109.78 ... |
| 2 ... | 53.94 ... | 60.89 ... | 106.71 ... | 2 ... | 54.86 ... | 63.15 ... | 109.87 ... |
| 1 ... | 53.99 ... | 60.93 ... | 106.78 ... | 1 ... | 54.90 ... | 63.19 ... | 109.95 ... |
| 0 ... | 53.13 ... | 60.97 ... | 106.86 ... | 0 ... | 54.95 ... | 63.23 ... | 110.03 ... |
| 9100 ... | 53.17 ... | 61.02 ... | 106.93 ... | 9080 ... | 55.00 ... | 63.28 ... | 110.12 ... |
| 8 ... | 53.22 ... | 61.06 ... | 107.01 ... | 8 ... | 55.05 ... | 63.32 ... | 110.20 ... |
| 7 ... | 53.26 ... | 61.10 ... | 107.08 ... | 7 ... | 55.09 ... | 63.36 ... | 110.28 ... |
| 6 ... | 53.30 ... | 61.15 ... | 107.16 ... | 6 ... | 55.14 ... | 63.40 ... | 110.36 ... |
| 5 ... | 53.35 ... | 61.19 ... | 107.23 ... | 5 ... | 55.18 ... | 63.44 ... | 110.44 ... |
| 4 ... | 53.39 ... | 61.23 ... | 107.31 ... | 4 ... | 55.23 ... | 63.48 ... | 110.52 ... |
| 3 ... | 53.43 ... | 61.28 ... | 107.38 ... | 3 ... | 55.27 ... | 63.52 ... | 110.60 ... |
| 2 ... | 53.48 ... | 61.32 ... | 107.46 ... | 2 ... | 55.32 ... | 63.56 ... | 110.68 ... |
| 1 ... | 53.52 ... | 61.36 ... | 107.54 ... | 1 ... | 55.36 ... | 63.60 ... | 110.76 ... |
| 0 ... | 53.57 ... | 61.40 ... | 107.61 ... | 0 ... | 55.41 ... | 63.64 ... | 110.84 ... |
| 9090 ... | 53.61 ... | 61.45 ... | 107.69 ... | 9050 ... | 55.45 ... | 63.68 ... | 110.92 ... |
| 8 ... | 53.65 ... | 61.49 ... | 107.76 ... | 8 ... | 55.50 ... | 63.72 ... | 111.00 ... |
| 7 ... | 53.70 ... | 61.53 ... | 107.84 ... | 7 ... | 55.55 ... | 63.76 ... | 111.08 ... |
| 6 ... | 53.74 ... | 61.58 ... | 107.91 ... | 6 ... | 55.59 ... | 63.80 ... | 111.16 ... |
| 5 ... | 53.78 ... | 61.62 ... | 107.99 ... | 5 ... | 55.64 ... | 63.84 ... | 111.24 ... |
| 4 ... | 53.83 ... | 61.66 ... | 108.06 ... | 4 ... | 55.68 ... | 63.88 ... | 111.32 ... |
| 3 ... | 53.87 ... | 61.71 ... | 108.14 ... | 3 ... | 55.73 ... | 63.92 ... | 111.40 ... |
| 2 ... | 53.91 ... | 61.75 ... | 108.21 ... | 2 ... | 55.77 ... | 63.96 ... | 111.48 ... |
| 1 ... | 53.96 ... | 61.79 ... | 108.29 ... | 1 ... | 55.82 ... | 64.00 ... | 111.56 ... |
| 0 ... | 54.00 ... | 61.84 ... | 108.36 ... | 0 ... | 55.86 ... | 64.04 ... | 111.64 ... |
| 9080 ... | 54.05 ... | 61.88 ... | 108.43 ... | 9040 ... | 55.91 ... | 64.08 ... | 111.72 ... |
| 8 ... | 54.10 ... | 61.93 ... | 108.51 ... | 8 ... | 55.95 ... | 64.12 ... | 111.80 ... |
| 7 ... | 54.14 ... | 61.98 ... | 108.59 ... | 7 ... | 56.00 ... | 64.16 ... | 111.88 ... |
| 6 ... | 54.19 ... | 62.03 ... | 108.67 ... | 6 ... | 56.05 ... | 64.20 ... | 111.96 ... |
| 5 ... | 54.24 ... | 62.07 ... | 108.75 ... | 5 ... | 56.09 ... | 64.24 ... | 112.04 ... |
| 4 ... | 54.29 ... | 62.12 ... | 108.83 ... | 4 ... | 56.14 ... | 64.28 ... | 112.12 ... |
| 3 ... | 54.33 ... | 62.17 ... | 108.91 ... | 3 ... | 56.18 ... | 64.32 ... | 112.20 ... |
| 2 ... | 54.38 ... | 62.22 ... | 109.00 ... | 2 ... | 56.23 ... | 64.36 ... | 112.28 ... |
| 1 ... | 54.43 ... | 62.26 ... | 109.08 ... | 1 ... | 56.27 ... | 64.40 ... | 112.36 ... |
| 0 ... | 54.48 ... | 62.31 ... | 109.16 ... | 0 ... | 56.32 ... | 64.44 ... | 112.44 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 9999 | 50.36 | 64.19 | 112.49 | 9999 | 55.09 | 68.85 | 116.41 |
| 8 | 50.41 | 64.22 | 112.57 | 8 | 55.14 | 68.90 | 116.49 |
| 7 | 50.45 | 64.27 | 112.64 | 7 | 55.18 | 68.94 | 116.57 |
| 6 | 50.50 | 64.31 | 112.72 | 6 | 55.23 | 68.99 | 116.64 |
| 5 | 50.55 | 64.36 | 112.80 | 5 | 55.27 | 69.03 | 116.72 |
| 4 | 50.59 | 64.40 | 112.87 | 4 | 55.32 | 69.07 | 116.80 |
| 3 | 50.64 | 64.45 | 112.95 | 3 | 55.36 | 69.12 | 116.87 |
| 2 | 50.68 | 64.49 | 113.03 | 2 | 55.41 | 69.16 | 116.95 |
| 1 | 50.73 | 64.54 | 113.11 | 1 | 55.45 | 69.21 | 117.03 |
| 0 | 50.77 | 64.58 | 113.18 | 0 | 55.50 | 69.25 | 117.11 |
| 9999 | 50.82 | 64.63 | 113.26 | 9999 | 55.55 | 69.30 | 117.18 |
| 8 | 50.86 | 64.67 | 113.34 | 8 | 55.59 | 69.34 | 117.26 |
| 7 | 50.91 | 64.71 | 113.41 | 7 | 55.64 | 69.38 | 117.34 |
| 6 | 50.95 | 64.76 | 113.49 | 6 | 55.68 | 69.43 | 117.42 |
| 5 | 51.00 | 64.80 | 113.57 | 5 | 55.73 | 69.47 | 117.49 |
| 4 | 51.04 | 64.85 | 113.64 | 4 | 55.77 | 69.51 | 117.57 |
| 3 | 51.08 | 64.89 | 113.71 | 3 | 55.82 | 69.56 | 117.65 |
| 2 | 51.13 | 64.93 | 113.78 | 2 | 55.86 | 69.60 | 117.72 |
| 1 | 51.17 | 64.97 | 113.85 | 1 | 55.91 | 69.65 | 117.80 |
| 0 | 51.21 | 65.01 | 113.92 | 0 | 55.95 | 69.69 | 117.88 |
| 9919 | 51.25 | 65.05 | 113.99 | 9979 | 57.00 | 69.74 | 117.96 |
| 8 | 51.29 | 65.09 | 114.06 | 8 | 59.04 | 69.78 | 117.03 |
| 7 | 51.33 | 65.13 | 114.13 | 7 | 59.09 | 69.82 | 117.11 |
| 6 | 51.38 | 65.17 | 114.20 | 6 | 59.13 | 69.86 | 117.17 |
| 5 | 51.42 | 65.21 | 114.27 | 5 | 59.17 | 69.90 | 117.25 |
| 4 | 51.46 | 65.25 | 114.34 | 4 | 59.22 | 69.94 | 117.32 |
| 3 | 51.50 | 65.29 | 114.41 | 3 | 59.26 | 69.99 | 117.39 |
| 2 | 51.54 | 65.33 | 114.48 | 2 | 59.30 | 69.93 | 117.47 |
| 1 | 51.58 | 65.37 | 114.55 | 1 | 59.35 | 69.97 | 117.54 |
| 0 | 51.63 | 65.41 | 114.62 | 0 | 59.39 | 69.91 | 117.61 |
| 9999 | 51.67 | 65.45 | 114.69 | 9999 | 59.43 | 67.15 | 117.68 |
| 8 | 51.71 | 65.49 | 114.76 | 8 | 59.48 | 67.19 | 117.76 |
| 7 | 51.75 | 65.53 | 114.83 | 7 | 59.52 | 67.24 | 117.83 |
| 6 | 51.79 | 65.57 | 114.90 | 6 | 59.57 | 67.28 | 117.90 |
| 5 | 51.83 | 65.61 | 114.97 | 5 | 59.61 | 67.32 | 117.98 |
| 4 | 51.88 | 65.65 | 115.04 | 4 | 59.65 | 67.36 | 118.05 |
| 3 | 51.92 | 65.69 | 115.11 | 3 | 59.70 | 67.40 | 118.12 |
| 2 | 51.96 | 65.73 | 115.18 | 2 | 59.74 | 67.44 | 118.20 |
| 1 | 52.00 | 65.77 | 115.26 | 1 | 59.78 | 67.49 | 118.27 |
| 0 | 52.05 | 65.81 | 115.33 | 0 | 59.83 | 67.53 | 118.34 |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 59.59 ... | 59.57 ... | 57.57 ... | 115.41 ... | 59.19 ... | 51.54 ... | 59.15 ... | 121.15 ... |
| 8 ... | 59.91 ... | 57.61 ... | 115.49 ... | 8 ... | 51.58 ... | 59.19 ... | 121.24 ... |
| 7 ... | 59.96 ... | 57.65 ... | 115.55 ... | 7 ... | 51.63 ... | 59.23 ... | 121.31 ... |
| 6 ... | 60.00 ... | 57.69 ... | 115.63 ... | 6 ... | 51.67 ... | 59.26 ... | 121.38 ... |
| 5 ... | 60.04 ... | 57.73 ... | 115.70 ... | 5 ... | 51.71 ... | 59.30 ... | 121.45 ... |
| 4 ... | 60.08 ... | 57.77 ... | 115.77 ... | 4 ... | 51.75 ... | 59.34 ... | 121.53 ... |
| 3 ... | 60.13 ... | 57.81 ... | 115.84 ... | 3 ... | 51.79 ... | 59.38 ... | 121.59 ... |
| 2 ... | 60.17 ... | 57.85 ... | 115.91 ... | 2 ... | 51.83 ... | 59.42 ... | 121.66 ... |
| 1 ... | 60.21 ... | 57.89 ... | 115.98 ... | 1 ... | 51.88 ... | 59.46 ... | 121.73 ... |
| 0 ... | 60.26 ... | 57.93 ... | 116.05 ... | 0 ... | 51.92 ... | 59.50 ... | 121.79 ... |
| 59.69 ... | 60.39 ... | 57.97 ... | 116.13 ... | 59.69 ... | 51.96 ... | 59.54 ... | 121.86 ... |
| 8 ... | 60.33 ... | 58.01 ... | 116.18 ... | 8 ... | 52.00 ... | 59.58 ... | 121.93 ... |
| 7 ... | 60.38 ... | 58.05 ... | 116.25 ... | 7 ... | 52.05 ... | 59.62 ... | 122.01 ... |
| 6 ... | 60.42 ... | 58.09 ... | 116.33 ... | 6 ... | 52.09 ... | 59.66 ... | 122.08 ... |
| 5 ... | 60.46 ... | 58.13 ... | 116.39 ... | 5 ... | 52.14 ... | 59.71 ... | 122.16 ... |
| 4 ... | 60.50 ... | 58.17 ... | 116.46 ... | 4 ... | 52.18 ... | 59.75 ... | 122.23 ... |
| 3 ... | 60.54 ... | 58.21 ... | 116.53 ... | 3 ... | 52.23 ... | 59.79 ... | 122.31 ... |
| 2 ... | 60.58 ... | 58.25 ... | 116.60 ... | 2 ... | 52.27 ... | 59.84 ... | 122.38 ... |
| 1 ... | 60.63 ... | 58.29 ... | 116.67 ... | 1 ... | 52.32 ... | 59.88 ... | 122.46 ... |
| 0 ... | 60.67 ... | 58.33 ... | 116.74 ... | 0 ... | 52.36 ... | 59.92 ... | 122.53 ... |
| 59.79 ... | 60.71 ... | 58.36 ... | 116.80 ... | 59.79 ... | 52.41 ... | 59.96 ... | 122.61 ... |
| 8 ... | 60.76 ... | 58.40 ... | 116.87 ... | 8 ... | 52.45 ... | 70.01 ... | 122.68 ... |
| 7 ... | 60.79 ... | 58.44 ... | 116.94 ... | 7 ... | 52.50 ... | 70.05 ... | 122.76 ... |
| 6 ... | 60.83 ... | 58.48 ... | 120.01 ... | 6 ... | 52.55 ... | 70.09 ... | 122.84 ... |
| 5 ... | 60.88 ... | 58.52 ... | 120.08 ... | 5 ... | 52.59 ... | 70.14 ... | 122.91 ... |
| 4 ... | 60.92 ... | 58.56 ... | 120.15 ... | 4 ... | 52.64 ... | 70.18 ... | 122.99 ... |
| 3 ... | 60.96 ... | 58.60 ... | 120.22 ... | 3 ... | 52.68 ... | 70.22 ... | 123.06 ... |
| 2 ... | 61.00 ... | 58.64 ... | 120.29 ... | 2 ... | 52.73 ... | 70.27 ... | 123.14 ... |
| 1 ... | 61.04 ... | 58.68 ... | 120.35 ... | 1 ... | 52.77 ... | 70.31 ... | 123.21 ... |
| 0 ... | 61.08 ... | 58.72 ... | 120.42 ... | 0 ... | 52.82 ... | 70.35 ... | 123.29 ... |
| 59.89 ... | 61.13 ... | 58.76 ... | 120.49 ... | 59.89 ... | 52.86 ... | 70.40 ... | 123.36 ... |
| 8 ... | 61.17 ... | 58.80 ... | 120.56 ... | 8 ... | 52.91 ... | 70.44 ... | 123.44 ... |
| 7 ... | 61.21 ... | 58.83 ... | 120.63 ... | 7 ... | 52.95 ... | 70.48 ... | 123.52 ... |
| 6 ... | 61.25 ... | 58.87 ... | 120.70 ... | 6 ... | 53.00 ... | 70.52 ... | 123.59 ... |
| 5 ... | 61.29 ... | 58.91 ... | 120.77 ... | 5 ... | 53.04 ... | 70.57 ... | 123.66 ... |
| 4 ... | 61.33 ... | 58.95 ... | 120.83 ... | 4 ... | 53.09 ... | 70.61 ... | 123.73 ... |
| 3 ... | 61.38 ... | 58.99 ... | 120.90 ... | 3 ... | 53.13 ... | 70.65 ... | 123.80 ... |
| 2 ... | 61.42 ... | 59.03 ... | 120.97 ... | 2 ... | 53.17 ... | 70.69 ... | 123.88 ... |
| 1 ... | 61.46 ... | 59.07 ... | 120.04 ... | 1 ... | 53.22 ... | 70.73 ... | 123.95 ... |
| 0 ... | 61.50 ... | 59.11 ... | 120.11 ... | 0 ... | 53.26 ... | 70.77 ... | 124.02 ... |

ALCOHOL TABLES.

| Spirits. | Specific Gravity at 60° F. = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F. = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|----------|---------------------------------------|-----------------------------|-----------------------------|----------------|---------------------------------------|-----------------------------|-----------------------------|----------------|
| cent. | | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 100 | 1.0000 | 100.00 | 100.00 | 100.00 | 1.0000 | 100.00 | 100.00 | 100.00 |
| 99 | 1.0000 | 99.99 | 99.99 | 99.99 | 1.0000 | 99.99 | 99.99 | 99.99 |
| 98 | 1.0000 | 99.98 | 99.98 | 99.98 | 1.0000 | 99.98 | 99.98 | 99.98 |
| 97 | 1.0000 | 99.97 | 99.97 | 99.97 | 1.0000 | 99.97 | 99.97 | 99.97 |
| 96 | 1.0000 | 99.96 | 99.96 | 99.96 | 1.0000 | 99.96 | 99.96 | 99.96 |
| 95 | 1.0000 | 99.95 | 99.95 | 99.95 | 1.0000 | 99.95 | 99.95 | 99.95 |
| 94 | 1.0000 | 99.94 | 99.94 | 99.94 | 1.0000 | 99.94 | 99.94 | 99.94 |
| 93 | 1.0000 | 99.93 | 99.93 | 99.93 | 1.0000 | 99.93 | 99.93 | 99.93 |
| 92 | 1.0000 | 99.92 | 99.92 | 99.92 | 1.0000 | 99.92 | 99.92 | 99.92 |
| 91 | 1.0000 | 99.91 | 99.91 | 99.91 | 1.0000 | 99.91 | 99.91 | 99.91 |
| 90 | 1.0000 | 99.90 | 99.90 | 99.90 | 1.0000 | 99.90 | 99.90 | 99.90 |
| 89 | 1.0000 | 99.89 | 99.89 | 99.89 | 1.0000 | 99.89 | 99.89 | 99.89 |
| 88 | 1.0000 | 99.88 | 99.88 | 99.88 | 1.0000 | 99.88 | 99.88 | 99.88 |
| 87 | 1.0000 | 99.87 | 99.87 | 99.87 | 1.0000 | 99.87 | 99.87 | 99.87 |
| 86 | 1.0000 | 99.86 | 99.86 | 99.86 | 1.0000 | 99.86 | 99.86 | 99.86 |
| 85 | 1.0000 | 99.85 | 99.85 | 99.85 | 1.0000 | 99.85 | 99.85 | 99.85 |
| 84 | 1.0000 | 99.84 | 99.84 | 99.84 | 1.0000 | 99.84 | 99.84 | 99.84 |
| 83 | 1.0000 | 99.83 | 99.83 | 99.83 | 1.0000 | 99.83 | 99.83 | 99.83 |
| 82 | 1.0000 | 99.82 | 99.82 | 99.82 | 1.0000 | 99.82 | 99.82 | 99.82 |
| 81 | 1.0000 | 99.81 | 99.81 | 99.81 | 1.0000 | 99.81 | 99.81 | 99.81 |
| 80 | 1.0000 | 99.80 | 99.80 | 99.80 | 1.0000 | 99.80 | 99.80 | 99.80 |
| 79 | 1.0000 | 99.79 | 99.79 | 99.79 | 1.0000 | 99.79 | 99.79 | 99.79 |
| 78 | 1.0000 | 99.78 | 99.78 | 99.78 | 1.0000 | 99.78 | 99.78 | 99.78 |
| 77 | 1.0000 | 99.77 | 99.77 | 99.77 | 1.0000 | 99.77 | 99.77 | 99.77 |
| 76 | 1.0000 | 99.76 | 99.76 | 99.76 | 1.0000 | 99.76 | 99.76 | 99.76 |
| 75 | 1.0000 | 99.75 | 99.75 | 99.75 | 1.0000 | 99.75 | 99.75 | 99.75 |
| 74 | 1.0000 | 99.74 | 99.74 | 99.74 | 1.0000 | 99.74 | 99.74 | 99.74 |
| 73 | 1.0000 | 99.73 | 99.73 | 99.73 | 1.0000 | 99.73 | 99.73 | 99.73 |
| 72 | 1.0000 | 99.72 | 99.72 | 99.72 | 1.0000 | 99.72 | 99.72 | 99.72 |
| 71 | 1.0000 | 99.71 | 99.71 | 99.71 | 1.0000 | 99.71 | 99.71 | 99.71 |
| 70 | 1.0000 | 99.70 | 99.70 | 99.70 | 1.0000 | 99.70 | 99.70 | 99.70 |
| 69 | 1.0000 | 99.69 | 99.69 | 99.69 | 1.0000 | 99.69 | 99.69 | 99.69 |
| 68 | 1.0000 | 99.68 | 99.68 | 99.68 | 1.0000 | 99.68 | 99.68 | 99.68 |
| 67 | 1.0000 | 99.67 | 99.67 | 99.67 | 1.0000 | 99.67 | 99.67 | 99.67 |
| 66 | 1.0000 | 99.66 | 99.66 | 99.66 | 1.0000 | 99.66 | 99.66 | 99.66 |
| 65 | 1.0000 | 99.65 | 99.65 | 99.65 | 1.0000 | 99.65 | 99.65 | 99.65 |
| 64 | 1.0000 | 99.64 | 99.64 | 99.64 | 1.0000 | 99.64 | 99.64 | 99.64 |
| 63 | 1.0000 | 99.63 | 99.63 | 99.63 | 1.0000 | 99.63 | 99.63 | 99.63 |
| 62 | 1.0000 | 99.62 | 99.62 | 99.62 | 1.0000 | 99.62 | 99.62 | 99.62 |
| 61 | 1.0000 | 99.61 | 99.61 | 99.61 | 1.0000 | 99.61 | 99.61 | 99.61 |
| 60 | 1.0000 | 99.60 | 99.60 | 99.60 | 1.0000 | 99.60 | 99.60 | 99.60 |
| 59 | 1.0000 | 99.59 | 99.59 | 99.59 | 1.0000 | 99.59 | 99.59 | 99.59 |
| 58 | 1.0000 | 99.58 | 99.58 | 99.58 | 1.0000 | 99.58 | 99.58 | 99.58 |
| 57 | 1.0000 | 99.57 | 99.57 | 99.57 | 1.0000 | 99.57 | 99.57 | 99.57 |
| 56 | 1.0000 | 99.56 | 99.56 | 99.56 | 1.0000 | 99.56 | 99.56 | 99.56 |
| 55 | 1.0000 | 99.55 | 99.55 | 99.55 | 1.0000 | 99.55 | 99.55 | 99.55 |
| 54 | 1.0000 | 99.54 | 99.54 | 99.54 | 1.0000 | 99.54 | 99.54 | 99.54 |
| 53 | 1.0000 | 99.53 | 99.53 | 99.53 | 1.0000 | 99.53 | 99.53 | 99.53 |
| 52 | 1.0000 | 99.52 | 99.52 | 99.52 | 1.0000 | 99.52 | 99.52 | 99.52 |
| 51 | 1.0000 | 99.51 | 99.51 | 99.51 | 1.0000 | 99.51 | 99.51 | 99.51 |
| 50 | 1.0000 | 99.50 | 99.50 | 99.50 | 1.0000 | 99.50 | 99.50 | 99.50 |
| 49 | 1.0000 | 99.49 | 99.49 | 99.49 | 1.0000 | 99.49 | 99.49 | 99.49 |
| 48 | 1.0000 | 99.48 | 99.48 | 99.48 | 1.0000 | 99.48 | 99.48 | 99.48 |
| 47 | 1.0000 | 99.47 | 99.47 | 99.47 | 1.0000 | 99.47 | 99.47 | 99.47 |
| 46 | 1.0000 | 99.46 | 99.46 | 99.46 | 1.0000 | 99.46 | 99.46 | 99.46 |
| 45 | 1.0000 | 99.45 | 99.45 | 99.45 | 1.0000 | 99.45 | 99.45 | 99.45 |
| 44 | 1.0000 | 99.44 | 99.44 | 99.44 | 1.0000 | 99.44 | 99.44 | 99.44 |
| 43 | 1.0000 | 99.43 | 99.43 | 99.43 | 1.0000 | 99.43 | 99.43 | 99.43 |
| 42 | 1.0000 | 99.42 | 99.42 | 99.42 | 1.0000 | 99.42 | 99.42 | 99.42 |
| 41 | 1.0000 | 99.41 | 99.41 | 99.41 | 1.0000 | 99.41 | 99.41 | 99.41 |
| 40 | 1.0000 | 99.40 | 99.40 | 99.40 | 1.0000 | 99.40 | 99.40 | 99.40 |
| 39 | 1.0000 | 99.39 | 99.39 | 99.39 | 1.0000 | 99.39 | 99.39 | 99.39 |
| 38 | 1.0000 | 99.38 | 99.38 | 99.38 | 1.0000 | 99.38 | 99.38 | 99.38 |
| 37 | 1.0000 | 99.37 | 99.37 | 99.37 | 1.0000 | 99.37 | 99.37 | 99.37 |
| 36 | 1.0000 | 99.36 | 99.36 | 99.36 | 1.0000 | 99.36 | 99.36 | 99.36 |
| 35 | 1.0000 | 99.35 | 99.35 | 99.35 | 1.0000 | 99.35 | 99.35 | 99.35 |
| 34 | 1.0000 | 99.34 | 99.34 | 99.34 | 1.0000 | 99.34 | 99.34 | 99.34 |
| 33 | 1.0000 | 99.33 | 99.33 | 99.33 | 1.0000 | 99.33 | 99.33 | 99.33 |
| 32 | 1.0000 | 99.32 | 99.32 | 99.32 | 1.0000 | 99.32 | 99.32 | 99.32 |
| 31 | 1.0000 | 99.31 | 99.31 | 99.31 | 1.0000 | 99.31 | 99.31 | 99.31 |
| 30 | 1.0000 | 99.30 | 99.30 | 99.30 | 1.0000 | 99.30 | 99.30 | 99.30 |
| 29 | 1.0000 | 99.29 | 99.29 | 99.29 | 1.0000 | 99.29 | 99.29 | 99.29 |
| 28 | 1.0000 | 99.28 | 99.28 | 99.28 | 1.0000 | 99.28 | 99.28 | 99.28 |
| 27 | 1.0000 | 99.27 | 99.27 | 99.27 | 1.0000 | 99.27 | 99.27 | 99.27 |
| 26 | 1.0000 | 99.26 | 99.26 | 99.26 | 1.0000 | 99.26 | 99.26 | 99.26 |
| 25 | 1.0000 | 99.25 | 99.25 | 99.25 | 1.0000 | 99.25 | 99.25 | 99.25 |
| 24 | 1.0000 | 99.24 | 99.24 | 99.24 | 1.0000 | 99.24 | 99.24 | 99.24 |
| 23 | 1.0000 | 99.23 | 99.23 | 99.23 | 1.0000 | 99.23 | 99.23 | 99.23 |
| 22 | 1.0000 | 99.22 | 99.22 | 99.22 | 1.0000 | 99.22 | 99.22 | 99.22 |
| 21 | 1.0000 | 99.21 | 99.21 | 99.21 | 1.0000 | 99.21 | 99.21 | 99.21 |
| 20 | 1.0000 | 99.20 | 99.20 | 99.20 | 1.0000 | 99.20 | 99.20 | 99.20 |
| 19 | 1.0000 | 99.19 | 99.19 | 99.19 | 1.0000 | 99.19 | 99.19 | 99.19 |
| 18 | 1.0000 | 99.18 | 99.18 | 99.18 | 1.0000 | 99.18 | 99.18 | 99.18 |
| 17 | 1.0000 | 99.17 | 99.17 | 99.17 | 1.0000 | 99.17 | 99.17 | 99.17 |
| 16 | 1.0000 | 99.16 | 99.16 | 99.16 | 1.0000 | 99.16 | 99.16 | 99.16 |
| 15 | 1.0000 | 99.15 | 99.15 | 99.15 | 1.0000 | 99.15 | 99.15 | 99.15 |
| 14 | 1.0000 | 99.14 | 99.14 | 99.14 | 1.0000 | 99.14 | 99.14 | 99.14 |
| 13 | 1.0000 | 99.13 | 99.13 | 99.13 | 1.0000 | 99.13 | 99.13 | 99.13 |
| 12 | 1.0000 | 99.12 | 99.12 | 99.12 | 1.0000 | 99.12 | 99.12 | 99.12 |
| 11 | 1.0000 | 99.11 | 99.11 | 99.11 | 1.0000 | 99.11 | 99.11 | 99.11 |
| 10 | 1.0000 | 99.10 | 99.10 | 99.10 | 1.0000 | 99.10 | 99.10 | 99.10 |
| 9 | 1.0000 | 99.09 | 99.09 | 99.09 | 1.0000 | 99.09 | 99.09 | 99.09 |
| 8 | 1.0000 | 99.08 | 99.08 | 99.08 | 1.0000 | 99.08 | 99.08 | 99.08 |
| 7 | 1.0000 | 99.07 | 99.07 | 99.07 | 1.0000 | 99.07 | 99.07 | 99.07 |
| 6 | 1.0000 | 99.06 | 99.06 | 99.06 | 1.0000 | 99.06 | 99.06 | 99.06 |
| 5 | 1.0000 | 99.05 | 99.05 | 99.05 | 1.0000 | 99.05 | 99.05 | 99.05 |
| 4 | 1.0000 | 99.04 | 99.04 | 99.04 | 1.0000 | 99.04 | 99.04 | 99.04 |
| 3 | 1.0000 | 99.03 | 99.03 | 99.03 | 1.0000 | 99.03 | 99.03 | 99.03 |
| 2 | 1.0000 | 99.02 | 99.02 | 99.02 | 1.0000 | 99.02 | 99.02 | 99.02 |
| 1 | 1.0000 | 99.01 | 99.01 | 99.01 | 1.0000 | 99.01 | 99.01 | 99.01 |
| 0 | 1.0000 | 99.00 | 99.00 | 99.00 | 1.0000 | 99.00 | 99.00 | 99.00 |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 8799 ... | 66.74 ... | 73.97 ... | 129.64 ... | 8789 ... | 66.49 ... | 73.49 ... | 128.98 ... |
| 8 ... | 66.76 ... | 74.01 ... | 129.71 ... | 8 ... | 66.46 ... | 73.53 ... | 129.26 ... |
| 7 ... | 66.83 ... | 74.06 ... | 129.78 ... | 7 ... | 66.50 ... | 73.57 ... | 129.43 ... |
| 6 ... | 66.87 ... | 74.09 ... | 129.85 ... | 6 ... | 66.54 ... | 73.60 ... | 129.49 ... |
| 5 ... | 66.91 ... | 74.13 ... | 129.92 ... | 5 ... | 66.58 ... | 73.64 ... | 129.56 ... |
| 4 ... | 66.96 ... | 74.17 ... | 129.99 ... | 4 ... | 66.63 ... | 73.68 ... | 129.63 ... |
| 3 ... | 67.00 ... | 74.22 ... | 130.06 ... | 3 ... | 66.67 ... | 73.73 ... | 129.69 ... |
| 2 ... | 67.04 ... | 74.25 ... | 130.13 ... | 2 ... | 66.71 ... | 73.75 ... | 129.76 ... |
| 1 ... | 67.08 ... | 73.29 ... | 130.19 ... | 1 ... | 66.75 ... | 73.79 ... | 129.82 ... |
| 0 ... | 67.13 ... | 74.33 ... | 130.26 ... | 0 ... | 66.79 ... | 73.83 ... | 129.89 ... |
| 8789 ... | 67.17 ... | 74.37 ... | 130.33 ... | 8749 ... | 66.83 ... | 73.87 ... | 129.95 ... |
| 8 ... | 67.21 ... | 74.40 ... | 130.39 ... | 8 ... | 66.88 ... | 73.90 ... | 130.02 ... |
| 7 ... | 67.25 ... | 74.44 ... | 130.46 ... | 7 ... | 66.93 ... | 73.94 ... | 130.08 ... |
| 6 ... | 67.29 ... | 74.48 ... | 130.52 ... | 6 ... | 66.96 ... | 73.98 ... | 130.16 ... |
| 5 ... | 67.33 ... | 74.52 ... | 130.59 ... | 5 ... | 66.99 ... | 74.01 ... | 130.21 ... |
| 4 ... | 67.38 ... | 74.55 ... | 130.66 ... | 4 ... | 69.04 ... | 74.05 ... | 130.28 ... |
| 3 ... | 67.42 ... | 74.59 ... | 130.73 ... | 3 ... | 69.08 ... | 74.09 ... | 130.34 ... |
| 2 ... | 67.46 ... | 74.63 ... | 130.79 ... | 2 ... | 69.13 ... | 74.13 ... | 130.41 ... |
| 1 ... | 67.50 ... | 74.67 ... | 130.85 ... | 1 ... | 69.17 ... | 74.16 ... | 130.47 ... |
| 0 ... | 67.54 ... | 74.70 ... | 130.92 ... | 0 ... | 69.21 ... | 74.20 ... | 130.54 ... |
| 8779 ... | 67.58 ... | 74.74 ... | 130.98 ... | 8739 ... | 69.25 ... | 74.24 ... | 130.60 ... |
| 8 ... | 67.63 ... | 74.78 ... | 131.05 ... | 8 ... | 69.29 ... | 74.27 ... | 130.67 ... |
| 7 ... | 67.67 ... | 74.82 ... | 131.12 ... | 7 ... | 69.33 ... | 74.31 ... | 130.73 ... |
| 6 ... | 67.71 ... | 74.86 ... | 131.18 ... | 6 ... | 69.38 ... | 74.35 ... | 130.80 ... |
| 5 ... | 67.75 ... | 74.89 ... | 131.25 ... | 5 ... | 69.42 ... | 74.39 ... | 130.86 ... |
| 4 ... | 67.79 ... | 74.93 ... | 131.31 ... | 4 ... | 69.46 ... | 74.42 ... | 130.93 ... |
| 3 ... | 67.83 ... | 74.97 ... | 131.38 ... | 3 ... | 69.50 ... | 74.46 ... | 130.99 ... |
| 2 ... | 67.88 ... | 75.01 ... | 131.45 ... | 2 ... | 69.54 ... | 74.50 ... | 131.06 ... |
| 1 ... | 67.92 ... | 75.04 ... | 131.51 ... | 1 ... | 69.58 ... | 74.53 ... | 131.12 ... |
| 0 ... | 67.96 ... | 75.08 ... | 131.58 ... | 0 ... | 69.63 ... | 74.57 ... | 131.19 ... |
| 8769 ... | 68.00 ... | 75.12 ... | 131.64 ... | 8729 ... | 69.67 ... | 74.61 ... | 131.25 ... |
| 8 ... | 68.04 ... | 75.13 ... | 131.71 ... | 8 ... | 69.71 ... | 74.65 ... | 131.32 ... |
| 7 ... | 68.08 ... | 75.19 ... | 131.77 ... | 7 ... | 69.75 ... | 74.68 ... | 131.38 ... |
| 6 ... | 68.13 ... | 75.23 ... | 131.84 ... | 6 ... | 69.79 ... | 74.72 ... | 131.45 ... |
| 5 ... | 68.17 ... | 75.27 ... | 131.90 ... | 5 ... | 69.83 ... | 74.76 ... | 131.51 ... |
| 4 ... | 68.21 ... | 75.30 ... | 131.97 ... | 4 ... | 69.88 ... | 74.80 ... | 131.58 ... |
| 3 ... | 68.25 ... | 75.34 ... | 132.04 ... | 3 ... | 69.92 ... | 74.83 ... | 131.64 ... |
| 2 ... | 68.29 ... | 75.38 ... | 132.10 ... | 2 ... | 69.96 ... | 74.87 ... | 131.71 ... |
| 1 ... | 68.33 ... | 75.43 ... | 132.17 ... | 1 ... | 70.00 ... | 74.91 ... | 131.77 ... |
| 0 ... | 68.38 ... | 75.45 ... | 132.23 ... | 0 ... | 70.04 ... | 74.94 ... | 131.84 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|------------------------------------|-----------------------------|-----------------------------|----------------|------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| ·8719 | 76·85 | 78·88 | 134·99 | ·8679 | 71·71 | 78·49 | 137·69 |
| 9 | 70·13 | 77·01 | 134·06 | 8 | 71·75 | 78·44 | 137·46 |
| 7 | 70·16 | 77·06 | 135·02 | 7 | 71·79 | 78·47 | 137·53 |
| 6 | 70·20 | 77·09 | 135·08 | 6 | 71·83 | 78·51 | 137·59 |
| 5 | 70·24 | 77·13 | 135·14 | 5 | 71·86 | 78·55 | 137·65 |
| 4 | 70·28 | 77·18 | 135·21 | 4 | 71·92 | 78·58 | 137·73 |
| 3 | 70·33 | 77·19 | 135·27 | 3 | 71·96 | 78·63 | 137·78 |
| 2 | 70·36 | 77·23 | 135·33 | 2 | 72·00 | 78·68 | 137·85 |
| 1 | 70·40 | 77·25 | 135·39 | 1 | 72·04 | 78·70 | 137·91 |
| 0 | 70·44 | 77·29 | 135·45 | 0 | 72·09 | 78·73 | 137·96 |
| ·8729 | 76·88 | 77·89 | 135·51 | ·8689 | 72·18 | 78·77 | 138·01 |
| 8 | 70·51 | 77·36 | 135·57 | 8 | 72·17 | 78·81 | 138·11 |
| 7 | 70·55 | 77·39 | 135·64 | 7 | 72·22 | 78·85 | 138·16 |
| 6 | 70·60 | 77·43 | 135·70 | 6 | 72·26 | 78·89 | 138·25 |
| 5 | 70·64 | 77·46 | 135·76 | 5 | 72·30 | 78·93 | 138·32 |
| 4 | 70·68 | 77·50 | 135·82 | 4 | 72·35 | 78·96 | 138·39 |
| 3 | 70·72 | 77·53 | 135·88 | 3 | 72·39 | 79·00 | 138·45 |
| 2 | 70·76 | 77·57 | 135·94 | 2 | 72·43 | 79·04 | 138·53 |
| 1 | 70·80 | 77·60 | 136·00 | 1 | 72·48 | 79·08 | 138·58 |
| 0 | 70·84 | 77·64 | 136·07 | 0 | 72·52 | 79·12 | 138·65 |
| ·8699 | 76·88 | 77·67 | 136·18 | ·8699 | 72·57 | 79·16 | 138·73 |
| 8 | 70·92 | 77·71 | 136·19 | 8 | 72·61 | 79·19 | 138·79 |
| 7 | 70·96 | 77·74 | 136·25 | 7 | 72·65 | 79·23 | 138·85 |
| 6 | 71·00 | 77·78 | 136·31 | 6 | 72·70 | 79·27 | 138·92 |
| 5 | 71·04 | 77·82 | 136·37 | 5 | 72·74 | 79·31 | 138·99 |
| 4 | 71·08 | 77·85 | 136·44 | 4 | 72·78 | 79·35 | 139·05 |
| 3 | 71·13 | 77·89 | 136·50 | 3 | 72·83 | 79·39 | 139·12 |
| 2 | 71·17 | 77·93 | 136·56 | 2 | 72·87 | 79·42 | 139·19 |
| 1 | 71·21 | 77·96 | 136·63 | 1 | 72·91 | 79·46 | 139·26 |
| 0 | 71·25 | 78·00 | 136·69 | 0 | 72·95 | 79·50 | 139·32 |
| ·8689 | 71·29 | 78·04 | 136·76 | ·8649 | 73·00 | 79·54 | 139·39 |
| 8 | 71·33 | 78·07 | 136·82 | 8 | 73·04 | 79·57 | 139·45 |
| 7 | 71·38 | 78·11 | 136·89 | 7 | 73·08 | 79·61 | 139·52 |
| 6 | 71·42 | 78·14 | 136·95 | 6 | 73·13 | 79·65 | 139·58 |
| 5 | 71·46 | 78·18 | 137·01 | 5 | 73·17 | 79·68 | 139·64 |
| 4 | 71·50 | 78·22 | 137·08 | 4 | 73·21 | 79·72 | 139·71 |
| 3 | 71·54 | 78·25 | 137·14 | 3 | 73·25 | 79·75 | 139·77 |
| 2 | 71·58 | 78·29 | 137·20 | 2 | 73·29 | 79·79 | 139·83 |
| 1 | 71·63 | 78·33 | 137·27 | 1 | 73·33 | 79·83 | 139·90 |
| 0 | 71·67 | 78·36 | 137·33 | 0 | 73·38 | 79·86 | 139·96 |

ALCOHOL TABLES.

| Specific Gravity at 60° F. or 15° C. | Absolute Alcohol by Weight | Absolute Alcohol by Volume | Proof Spirits. | Specific Gravity at 60° F. or 15° C. | Absolute Alcohol by Weight | Absolute Alcohol by Volume | Proof Spirits. |
|--------------------------------------|----------------------------|----------------------------|----------------|--------------------------------------|----------------------------|----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 8550 | 73.43 | 79.90 | 140.00 | 8550 | 73.18 | 81.44 | 143.75 |
| 8 | 73.46 | 79.91 | 140.00 | 8 | 73.33 | 81.48 | 143.79 |
| 7 | 73.50 | 79.79 | 140.15 | 7 | 73.27 | 81.53 | 143.80 |
| 6 | 73.54 | 80.01 | 140.31 | 6 | 73.32 | 81.56 | 143.83 |
| 5 | 73.58 | 80.04 | 140.27 | 5 | 73.36 | 81.60 | 143.00 |
| 4 | 73.63 | 80.08 | 140.34 | 4 | 73.41 | 81.64 | 143.07 |
| 3 | 73.67 | 80.12 | 140.40 | 3 | 73.45 | 81.68 | 143.14 |
| 2 | 73.71 | 80.15 | 140.46 | 2 | 73.50 | 81.73 | 143.21 |
| 1 | 73.75 | 80.19 | 140.53 | 1 | 73.55 | 81.78 | 143.28 |
| 0 | 73.79 | 80.23 | 140.59 | 0 | 73.59 | 81.80 | 143.35 |
| 8559 | 73.53 | 80.36 | 140.65 | 8559 | 73.64 | 81.84 | 143.43 |
| 8 | 73.58 | 80.30 | 140.72 | 8 | 73.68 | 81.88 | 143.49 |
| 7 | 73.91 | 80.33 | 140.78 | 7 | 73.73 | 81.92 | 143.56 |
| 6 | 73.96 | 80.37 | 140.84 | 6 | 73.77 | 81.96 | 143.63 |
| 5 | 74.00 | 80.40 | 140.91 | 5 | 73.82 | 82.00 | 143.70 |
| 4 | 74.05 | 80.44 | 140.98 | 4 | 73.86 | 82.04 | 143.77 |
| 3 | 74.09 | 80.48 | 141.05 | 3 | 73.91 | 82.08 | 143.84 |
| 2 | 74.14 | 80.52 | 141.12 | 2 | 73.95 | 82.12 | 143.91 |
| 1 | 74.18 | 80.56 | 141.19 | 1 | 73.99 | 82.16 | 143.98 |
| 0 | 74.23 | 80.60 | 141.26 | 0 | 74.04 | 82.19 | 144.04 |
| 8569 | 74.37 | 80.64 | 141.33 | 8578 | 74.08 | 82.23 | 144.10 |
| 8 | 74.32 | 80.68 | 141.40 | 8 | 74.13 | 82.26 | 144.16 |
| 7 | 74.36 | 80.72 | 141.47 | 7 | 74.17 | 82.30 | 144.23 |
| 6 | 74.41 | 80.76 | 141.54 | 6 | 74.21 | 82.33 | 144.29 |
| 5 | 74.45 | 80.80 | 141.61 | 5 | 74.25 | 82.37 | 144.35 |
| 4 | 74.50 | 80.84 | 141.68 | 4 | 74.29 | 82.40 | 144.41 |
| 3 | 74.55 | 80.88 | 141.75 | 3 | 74.33 | 82.44 | 144.47 |
| 2 | 74.59 | 80.92 | 141.82 | 2 | 74.38 | 82.47 | 144.54 |
| 1 | 74.64 | 80.96 | 141.89 | 1 | 74.42 | 82.51 | 144.60 |
| 0 | 74.68 | 81.00 | 141.96 | 0 | 74.46 | 82.54 | 144.66 |
| 8569 | 74.73 | 81.04 | 142.03 | 8569 | 74.50 | 82.58 | 144.73 |
| 8 | 74.77 | 81.08 | 142.10 | 8 | 74.54 | 82.61 | 144.78 |
| 7 | 74.82 | 81.12 | 142.17 | 7 | 74.58 | 82.65 | 144.84 |
| 6 | 74.86 | 81.16 | 142.24 | 6 | 74.63 | 82.69 | 144.91 |
| 5 | 74.91 | 81.20 | 142.31 | 5 | 74.67 | 82.73 | 144.97 |
| 4 | 74.95 | 81.24 | 142.38 | 4 | 74.71 | 82.76 | 145.03 |
| 3 | 75.00 | 81.28 | 142.45 | 3 | 74.75 | 82.79 | 145.09 |
| 2 | 75.05 | 81.32 | 142.52 | 2 | 74.79 | 82.83 | 145.15 |
| 1 | 75.09 | 81.36 | 142.59 | 1 | 74.83 | 82.86 | 145.22 |
| 0 | 75.14 | 81.40 | 142.66 | 0 | 74.88 | 82.90 | 145.28 |

ALCOHOL TABLES.

| Specific Gravity at 60° F or 15° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F or 15° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|-------------------------------------|-----------------------------|-----------------------------|----------------|-------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 8550 | 76.98 | 83.98 | 145.84 | 8510 | 78.88 | 84.88 | 147.78 |
| 8 | 76.96 | 83.97 | 145.40 | 8 | 78.86 | 84.84 | 147.80 |
| 7 | 77.00 | 83.00 | 145.46 | 7 | 78.84 | 84.87 | 147.86 |
| 6 | 77.04 | 83.04 | 145.53 | 6 | 78.88 | 84.41 | 147.92 |
| 5 | 77.08 | 83.07 | 145.59 | 5 | 78.73 | 84.44 | 147.98 |
| 4 | 77.12 | 83.11 | 145.65 | 4 | 78.76 | 84.47 | 148.03 |
| 3 | 77.17 | 83.14 | 145.71 | 3 | 78.80 | 84.51 | 148.09 |
| 2 | 77.21 | 83.18 | 145.77 | 2 | 78.84 | 84.54 | 148.15 |
| 1 | 77.25 | 83.21 | 145.83 | 1 | 78.88 | 84.57 | 148.21 |
| 0 | 77.29 | 83.25 | 145.89 | 0 | 78.93 | 84.60 | 148.27 |
| 8540 | 77.88 | 83.88 | 145.95 | 8500 | 78.98 | 84.64 | 148.33 |
| 8 | 77.38 | 83.83 | 145.03 | 8 | 79.00 | 84.67 | 148.38 |
| 7 | 77.43 | 83.86 | 145.08 | 7 | 79.04 | 84.70 | 148.44 |
| 6 | 77.48 | 83.89 | 145.14 | 6 | 79.08 | 84.74 | 148.50 |
| 5 | 77.50 | 83.43 | 145.20 | 5 | 79.12 | 84.77 | 148.56 |
| 4 | 77.54 | 83.46 | 145.26 | 4 | 79.16 | 84.80 | 148.61 |
| 3 | 77.58 | 83.50 | 145.32 | 3 | 79.20 | 84.83 | 148.67 |
| 2 | 77.63 | 83.53 | 145.39 | 2 | 79.24 | 84.87 | 148.73 |
| 1 | 77.67 | 83.57 | 145.45 | 1 | 79.28 | 84.90 | 148.79 |
| 0 | 77.71 | 83.60 | 145.51 | 0 | 79.32 | 84.93 | 148.84 |
| 8530 | 77.75 | 83.64 | 145.57 | 8490 | 79.38 | 84.97 | 148.90 |
| 8 | 77.79 | 83.67 | 145.63 | 8 | 79.40 | 85.00 | 148.96 |
| 7 | 77.83 | 83.71 | 145.69 | 7 | 79.44 | 85.03 | 149.02 |
| 6 | 77.88 | 83.74 | 145.75 | 6 | 79.48 | 85.06 | 149.07 |
| 5 | 77.92 | 83.78 | 145.82 | 5 | 79.52 | 85.10 | 149.13 |
| 4 | 77.96 | 83.81 | 145.88 | 4 | 79.56 | 85.13 | 149.19 |
| 3 | 78.00 | 83.85 | 145.94 | 3 | 79.60 | 85.16 | 149.25 |
| 2 | 78.04 | 83.89 | 147.00 | 2 | 79.64 | 85.19 | 149.27 |
| 1 | 78.08 | 83.91 | 147.05 | 1 | 79.68 | 85.23 | 149.32 |
| 0 | 78.12 | 83.94 | 147.11 | 0 | 79.72 | 85.26 | 149.38 |
| 8520 | 78.16 | 83.98 | 147.17 | 8480 | 79.78 | 85.29 | 149.44 |
| 8 | 78.20 | 84.01 | 147.23 | 8 | 79.80 | 85.33 | 149.50 |
| 7 | 78.24 | 84.04 | 147.29 | 7 | 79.84 | 85.36 | 149.56 |
| 6 | 78.28 | 84.08 | 147.34 | 6 | 79.88 | 85.39 | 149.61 |
| 5 | 78.32 | 84.11 | 147.40 | 5 | 79.92 | 85.42 | 149.67 |
| 4 | 78.36 | 84.14 | 147.46 | 4 | 79.96 | 85.46 | 149.73 |
| 3 | 78.40 | 84.18 | 147.52 | 3 | 80.00 | 85.49 | 149.78 |
| 2 | 78.44 | 84.21 | 147.57 | 2 | 80.04 | 85.53 | 149.88 |
| 1 | 78.48 | 84.24 | 147.63 | 1 | 80.08 | 85.56 | 149.94 |
| 0 | 78.52 | 84.27 | 147.69 | 0 | 80.13 | 85.59 | 150.00 |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|--------------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| per cent. | per cent. | per cent. | per cent. | per cent. | per cent. | per cent. | per cent. |
| 8479 ... 80.17 ... | 85.63 ... | 150.66 ... | 8489 ... 81.89 ... | 86.96 ... | 152.49 ... | | |
| 8 ... 80.21 ... | 85.66 ... | 150.12 ... | 8 ... 81.84 ... | 86.99 ... | 152.45 ... | | |
| 7 ... 80.28 ... | 85.70 ... | 150.19 ... | 7 ... 81.89 ... | 87.03 ... | 152.51 ... | | |
| 6 ... 80.29 ... | 85.73 ... | 150.25 ... | 6 ... 81.92 ... | 87.06 ... | 152.57 ... | | |
| 5 ... 80.33 ... | 85.77 ... | 150.31 ... | 5 ... 81.96 ... | 87.09 ... | 152.62 ... | | |
| 4 ... 80.38 ... | 85.80 ... | 150.27 ... | 4 ... 82.00 ... | 87.12 ... | 152.68 ... | | |
| 3 ... 80.42 ... | 85.84 ... | 150.43 ... | 3 ... 82.04 ... | 87.15 ... | 152.73 ... | | |
| 2 ... 80.46 ... | 85.87 ... | 150.49 ... | 2 ... 82.08 ... | 87.18 ... | 152.79 ... | | |
| 1 ... 80.50 ... | 85.90 ... | 150.55 ... | 1 ... 82.12 ... | 87.21 ... | 152.84 ... | | |
| 0 ... 80.54 ... | 85.94 ... | 150.61 ... | 0 ... 82.15 ... | 87.24 ... | 152.89 ... | | |
| 8489 ... 80.58 ... | 85.97 ... | 150.67 ... | 8499 ... 82.19 ... | 87.27 ... | 152.95 ... | | |
| 8 ... 80.63 ... | 86.01 ... | 150.73 ... | 8 ... 82.23 ... | 87.30 ... | 153.00 ... | | |
| 7 ... 80.67 ... | 86.04 ... | 150.79 ... | 7 ... 82.27 ... | 87.34 ... | 153.05 ... | | |
| 6 ... 80.71 ... | 86.08 ... | 150.85 ... | 6 ... 82.31 ... | 87.37 ... | 153.11 ... | | |
| 5 ... 80.75 ... | 86.11 ... | 150.91 ... | 5 ... 82.35 ... | 87.40 ... | 153.16 ... | | |
| 4 ... 80.79 ... | 86.15 ... | 150.97 ... | 4 ... 82.38 ... | 87.43 ... | 153.21 ... | | |
| 3 ... 80.83 ... | 86.18 ... | 151.03 ... | 3 ... 82.42 ... | 87.46 ... | 153.27 ... | | |
| 2 ... 80.88 ... | 86.22 ... | 151.09 ... | 2 ... 82.46 ... | 87.49 ... | 153.32 ... | | |
| 1 ... 80.92 ... | 86.25 ... | 151.15 ... | 1 ... 82.50 ... | 87.52 ... | 153.37 ... | | |
| 0 ... 80.96 ... | 86.28 ... | 151.21 ... | 0 ... 82.54 ... | 87.55 ... | 153.43 ... | | |
| 8499 ... 81.00 ... | 86.32 ... | 151.27 ... | 8509 ... 82.58 ... | 87.58 ... | 153.48 ... | | |
| 8 ... 81.04 ... | 86.35 ... | 151.33 ... | 8 ... 82.62 ... | 87.61 ... | 153.53 ... | | |
| 7 ... 81.08 ... | 86.38 ... | 151.38 ... | 7 ... 82.65 ... | 87.64 ... | 153.59 ... | | |
| 6 ... 81.12 ... | 86.42 ... | 151.44 ... | 6 ... 82.69 ... | 87.67 ... | 153.64 ... | | |
| 5 ... 81.16 ... | 86.45 ... | 151.49 ... | 5 ... 82.73 ... | 87.70 ... | 153.69 ... | | |
| 4 ... 81.20 ... | 86.48 ... | 151.55 ... | 4 ... 82.77 ... | 87.73 ... | 153.75 ... | | |
| 3 ... 81.24 ... | 86.51 ... | 151.61 ... | 3 ... 82.81 ... | 87.76 ... | 153.80 ... | | |
| 2 ... 81.28 ... | 86.54 ... | 151.66 ... | 2 ... 82.85 ... | 87.79 ... | 153.85 ... | | |
| 1 ... 81.32 ... | 86.58 ... | 151.72 ... | 1 ... 82.88 ... | 87.82 ... | 153.91 ... | | |
| 0 ... 81.36 ... | 86.61 ... | 151.78 ... | 0 ... 82.92 ... | 87.85 ... | 153.96 ... | | |
| 8509 ... 81.40 ... | 86.64 ... | 151.83 ... | 8519 ... 82.96 ... | 87.88 ... | 154.01 ... | | |
| 8 ... 81.44 ... | 86.67 ... | 151.89 ... | 8 ... 83.00 ... | 87.91 ... | 154.07 ... | | |
| 7 ... 81.48 ... | 86.71 ... | 151.95 ... | 7 ... 83.04 ... | 87.94 ... | 154.12 ... | | |
| 6 ... 81.52 ... | 86.74 ... | 152.00 ... | 6 ... 83.08 ... | 87.97 ... | 154.17 ... | | |
| 5 ... 81.56 ... | 86.77 ... | 152.06 ... | 5 ... 83.12 ... | 88.00 ... | 154.23 ... | | |
| 4 ... 81.60 ... | 86.80 ... | 152.11 ... | 4 ... 83.15 ... | 88.03 ... | 154.28 ... | | |
| 3 ... 81.64 ... | 86.83 ... | 152.17 ... | 3 ... 83.19 ... | 88.06 ... | 154.33 ... | | |
| 2 ... 81.68 ... | 86.87 ... | 152.23 ... | 2 ... 83.23 ... | 88.09 ... | 154.38 ... | | |
| 1 ... 81.72 ... | 86.90 ... | 152.28 ... | 1 ... 83.27 ... | 88.13 ... | 154.44 ... | | |
| 0 ... 81.76 ... | 86.93 ... | 152.34 ... | 0 ... 83.31 ... | 88.16 ... | 154.49 ... | | |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 8399 ... | 83.35 ... | 83.19 ... | 154.54 ... | 8339 ... | 84.23 ... | 83.43 ... | 156.71 ... |
| 8 ... | 83.33 ... | 83.22 ... | 154.60 ... | 8 ... | 84.26 ... | 83.46 ... | 156.77 ... |
| 7 ... | 83.42 ... | 83.25 ... | 154.65 ... | 7 ... | 85.00 ... | 83.49 ... | 156.82 ... |
| 6 ... | 83.46 ... | 83.28 ... | 154.70 ... | 6 ... | 85.04 ... | 83.52 ... | 156.87 ... |
| 5 ... | 83.50 ... | 83.31 ... | 154.75 ... | 5 ... | 85.08 ... | 83.55 ... | 156.93 ... |
| 4 ... | 83.54 ... | 83.34 ... | 154.81 ... | 4 ... | 85.13 ... | 83.58 ... | 156.98 ... |
| 3 ... | 83.58 ... | 83.37 ... | 154.86 ... | 3 ... | 85.15 ... | 83.61 ... | 157.03 ... |
| 2 ... | 83.63 ... | 83.40 ... | 154.91 ... | 2 ... | 85.19 ... | 83.64 ... | 157.08 ... |
| 1 ... | 83.65 ... | 83.43 ... | 154.97 ... | 1 ... | 85.23 ... | 83.67 ... | 157.13 ... |
| 0 ... | 83.69 ... | 83.46 ... | 155.02 ... | 0 ... | 85.27 ... | 83.70 ... | 157.19 ... |
| 8399 ... | 83.73 ... | 83.49 ... | 155.07 ... | 8349 ... | 85.31 ... | 83.72 ... | 157.24 ... |
| 8 ... | 83.77 ... | 83.52 ... | 155.13 ... | 8 ... | 85.35 ... | 83.75 ... | 157.29 ... |
| 7 ... | 83.81 ... | 83.55 ... | 155.18 ... | 7 ... | 85.38 ... | 83.78 ... | 157.34 ... |
| 6 ... | 83.85 ... | 83.58 ... | 155.23 ... | 6 ... | 85.42 ... | 83.81 ... | 157.39 ... |
| 5 ... | 83.88 ... | 83.61 ... | 155.28 ... | 5 ... | 85.46 ... | 83.84 ... | 157.45 ... |
| 4 ... | 83.92 ... | 83.64 ... | 155.34 ... | 4 ... | 85.50 ... | 83.87 ... | 157.50 ... |
| 3 ... | 83.96 ... | 83.67 ... | 155.39 ... | 3 ... | 85.54 ... | 83.90 ... | 157.55 ... |
| 2 ... | 84.00 ... | 83.70 ... | 155.44 ... | 2 ... | 85.58 ... | 83.93 ... | 157.60 ... |
| 1 ... | 84.04 ... | 83.73 ... | 155.50 ... | 1 ... | 85.62 ... | 83.96 ... | 157.65 ... |
| 0 ... | 84.08 ... | 83.76 ... | 155.55 ... | 0 ... | 85.65 ... | 83.99 ... | 157.71 ... |
| 8379 ... | 84.12 ... | 83.79 ... | 155.61 ... | 8339 ... | 85.69 ... | 83.92 ... | 157.76 ... |
| 8 ... | 84.16 ... | 83.83 ... | 155.66 ... | 8 ... | 85.73 ... | 83.95 ... | 157.81 ... |
| 7 ... | 84.20 ... | 83.86 ... | 155.72 ... | 7 ... | 85.77 ... | 83.98 ... | 157.86 ... |
| 6 ... | 84.24 ... | 83.89 ... | 155.77 ... | 6 ... | 85.81 ... | 83.91 ... | 157.91 ... |
| 5 ... | 84.28 ... | 83.92 ... | 155.83 ... | 5 ... | 85.85 ... | 83.94 ... | 157.97 ... |
| 4 ... | 84.32 ... | 83.95 ... | 155.88 ... | 4 ... | 85.88 ... | 83.97 ... | 158.02 ... |
| 3 ... | 84.36 ... | 83.98 ... | 155.94 ... | 3 ... | 85.92 ... | 83.90 ... | 158.07 ... |
| 2 ... | 84.40 ... | 83.91 ... | 155.99 ... | 2 ... | 85.96 ... | 83.93 ... | 158.12 ... |
| 1 ... | 84.44 ... | 83.95 ... | 156.05 ... | 1 ... | 86.00 ... | 83.96 ... | 158.17 ... |
| 0 ... | 84.48 ... | 83.98 ... | 156.10 ... | 0 ... | 86.04 ... | 83.99 ... | 158.23 ... |
| 8369 ... | 84.52 ... | 83.91 ... | 156.16 ... | 8329 ... | 86.08 ... | 83.92 ... | 158.28 ... |
| 8 ... | 84.56 ... | 83.94 ... | 156.21 ... | 8 ... | 86.12 ... | 83.95 ... | 158.33 ... |
| 7 ... | 84.60 ... | 83.97 ... | 156.27 ... | 7 ... | 86.15 ... | 83.98 ... | 158.38 ... |
| 6 ... | 84.64 ... | 83.90 ... | 156.33 ... | 6 ... | 86.19 ... | 83.90 ... | 158.43 ... |
| 5 ... | 84.68 ... | 83.94 ... | 156.38 ... | 5 ... | 86.23 ... | 83.93 ... | 158.48 ... |
| 4 ... | 84.72 ... | 83.97 ... | 156.44 ... | 4 ... | 86.27 ... | 83.96 ... | 158.53 ... |
| 3 ... | 84.76 ... | 83.90 ... | 156.49 ... | 3 ... | 86.31 ... | 83.99 ... | 158.59 ... |
| 2 ... | 84.80 ... | 83.93 ... | 156.55 ... | 2 ... | 86.35 ... | 83.92 ... | 158.64 ... |
| 1 ... | 84.84 ... | 83.96 ... | 156.60 ... | 1 ... | 86.38 ... | 83.95 ... | 158.69 ... |
| 0 ... | 84.88 ... | 83.99 ... | 156.66 ... | 0 ... | 86.42 ... | 83.98 ... | 158.74 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F. = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F. = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|---------------------------------------|-----------------------------|-----------------------------|----------------|---------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 8819 ... | 86.46 ... | 90.61 ... | 158.79 ... | 8279 ... | 86.00 ... | 91.75 ... | 160.84 ... |
| 8 ... | 86.50 ... | 90.64 ... | 158.84 ... | 8 ... | 86.04 ... | 91.81 ... | 160.89 ... |
| 7 ... | 86.54 ... | 90.67 ... | 158.90 ... | 7 ... | 86.08 ... | 91.84 ... | 160.95 ... |
| 6 ... | 86.58 ... | 90.70 ... | 158.95 ... | 6 ... | 86.12 ... | 91.87 ... | 161.00 ... |
| 5 ... | 86.62 ... | 90.73 ... | 159.00 ... | 5 ... | 86.16 ... | 91.90 ... | 161.05 ... |
| 4 ... | 86.65 ... | 90.76 ... | 159.05 ... | 4 ... | 86.20 ... | 91.93 ... | 161.11 ... |
| 3 ... | 86.69 ... | 90.79 ... | 159.10 ... | 3 ... | 86.24 ... | 91.96 ... | 161.16 ... |
| 2 ... | 86.73 ... | 90.82 ... | 159.15 ... | 2 ... | 86.28 ... | 91.99 ... | 161.21 ... |
| 1 ... | 86.77 ... | 90.85 ... | 159.20 ... | 1 ... | 86.32 ... | 92.02 ... | 161.27 ... |
| 0 ... | 86.81 ... | 90.88 ... | 159.26 ... | 0 ... | 86.36 ... | 92.05 ... | 161.32 ... |
| 8869 ... | 86.55 ... | 90.90 ... | 159.31 ... | 8269 ... | 85.40 ... | 92.05 ... | 161.37 ... |
| 8 ... | 86.59 ... | 90.93 ... | 159.36 ... | 8 ... | 85.44 ... | 92.12 ... | 161.43 ... |
| 7 ... | 86.62 ... | 90.96 ... | 159.41 ... | 7 ... | 85.48 ... | 92.15 ... | 161.48 ... |
| 6 ... | 86.66 ... | 90.99 ... | 159.46 ... | 6 ... | 85.52 ... | 92.18 ... | 161.53 ... |
| 5 ... | 87.00 ... | 91.02 ... | 159.51 ... | 5 ... | 85.56 ... | 92.21 ... | 161.59 ... |
| 4 ... | 87.04 ... | 91.05 ... | 159.57 ... | 4 ... | 85.60 ... | 92.24 ... | 161.64 ... |
| 3 ... | 87.08 ... | 91.08 ... | 159.62 ... | 3 ... | 85.64 ... | 92.27 ... | 161.70 ... |
| 2 ... | 87.12 ... | 91.11 ... | 159.67 ... | 2 ... | 85.68 ... | 92.30 ... | 161.75 ... |
| 1 ... | 87.15 ... | 91.14 ... | 159.72 ... | 1 ... | 85.72 ... | 92.33 ... | 161.80 ... |
| 0 ... | 87.19 ... | 91.17 ... | 159.77 ... | 0 ... | 85.76 ... | 92.36 ... | 161.86 ... |
| 8299 ... | 87.23 ... | 91.20 ... | 159.82 ... | 8259 ... | 85.80 ... | 92.39 ... | 161.91 ... |
| 8 ... | 87.27 ... | 91.23 ... | 159.87 ... | 8 ... | 85.84 ... | 92.42 ... | 161.96 ... |
| 7 ... | 87.31 ... | 91.25 ... | 159.92 ... | 7 ... | 85.88 ... | 92.45 ... | 162.02 ... |
| 6 ... | 87.35 ... | 91.28 ... | 159.97 ... | 6 ... | 85.92 ... | 92.48 ... | 162.07 ... |
| 5 ... | 87.38 ... | 91.31 ... | 160.02 ... | 5 ... | 85.96 ... | 92.51 ... | 162.12 ... |
| 4 ... | 87.42 ... | 91.34 ... | 160.08 ... | 4 ... | 85.00 ... | 92.54 ... | 162.18 ... |
| 3 ... | 87.46 ... | 91.37 ... | 160.13 ... | 3 ... | 85.04 ... | 92.57 ... | 162.23 ... |
| 2 ... | 87.50 ... | 91.40 ... | 160.18 ... | 2 ... | 85.08 ... | 92.60 ... | 162.28 ... |
| 1 ... | 87.54 ... | 91.43 ... | 160.23 ... | 1 ... | 85.12 ... | 92.63 ... | 162.33 ... |
| 0 ... | 87.58 ... | 91.46 ... | 160.28 ... | 0 ... | 85.16 ... | 92.66 ... | 162.38 ... |
| 8299 ... | 87.62 ... | 91.49 ... | 160.33 ... | 8249 ... | 85.19 ... | 92.69 ... | 162.43 ... |
| 8 ... | 87.65 ... | 91.52 ... | 160.38 ... | 8 ... | 85.23 ... | 92.71 ... | 162.48 ... |
| 7 ... | 87.69 ... | 91.55 ... | 160.43 ... | 7 ... | 85.27 ... | 92.74 ... | 162.53 ... |
| 6 ... | 87.73 ... | 91.57 ... | 160.48 ... | 6 ... | 85.31 ... | 92.77 ... | 162.58 ... |
| 5 ... | 87.77 ... | 91.60 ... | 160.53 ... | 5 ... | 85.35 ... | 92.80 ... | 162.63 ... |
| 4 ... | 87.81 ... | 91.63 ... | 160.59 ... | 4 ... | 85.38 ... | 92.83 ... | 162.68 ... |
| 3 ... | 87.85 ... | 91.66 ... | 160.64 ... | 3 ... | 85.42 ... | 92.86 ... | 162.73 ... |
| 2 ... | 87.88 ... | 91.69 ... | 160.69 ... | 2 ... | 85.46 ... | 92.89 ... | 162.78 ... |
| 1 ... | 87.92 ... | 91.72 ... | 160.74 ... | 1 ... | 85.50 ... | 92.91 ... | 162.83 ... |
| 0 ... | 87.96 ... | 91.75 ... | 160.79 ... | 0 ... | 85.54 ... | 92.94 ... | 162.88 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 8230 ... | 89.58 ... | 92.97 ... | 162.93 ... | 8199 ... | 91.04 ... | 94.03 ... | 164.75 ... |
| 8 ... | 89.62 ... | 93.00 ... | 162.96 ... | 8 ... | 91.07 ... | 94.05 ... | 164.83 ... |
| 7 ... | 89.65 ... | 93.03 ... | 163.03 ... | 7 ... | 91.11 ... | 94.08 ... | 164.87 ... |
| 6 ... | 89.69 ... | 93.06 ... | 163.08 ... | 6 ... | 91.14 ... | 94.10 ... | 164.91 ... |
| 5 ... | 89.73 ... | 93.09 ... | 163.13 ... | 5 ... | 91.18 ... | 94.13 ... | 164.96 ... |
| 4 ... | 89.77 ... | 93.11 ... | 163.16 ... | 4 ... | 91.21 ... | 94.15 ... | 165.00 ... |
| 3 ... | 89.81 ... | 93.14 ... | 163.23 ... | 3 ... | 91.25 ... | 94.18 ... | 165.05 ... |
| 2 ... | 89.85 ... | 93.17 ... | 163.28 ... | 2 ... | 91.29 ... | 94.21 ... | 165.09 ... |
| 1 ... | 89.88 ... | 93.20 ... | 163.33 ... | 1 ... | 91.32 ... | 94.23 ... | 165.14 ... |
| 0 ... | 89.92 ... | 93.23 ... | 163.38 ... | 0 ... | 91.36 ... | 94.26 ... | 165.18 ... |
| 8239 ... | 89.96 ... | 93.26 ... | 163.43 ... | 8199 ... | 91.39 ... | 94.29 ... | 165.23 ... |
| 8 ... | 90.00 ... | 93.29 ... | 163.48 ... | 8 ... | 91.43 ... | 94.31 ... | 165.27 ... |
| 7 ... | 90.04 ... | 93.31 ... | 163.53 ... | 7 ... | 91.46 ... | 94.33 ... | 165.31 ... |
| 6 ... | 90.07 ... | 93.34 ... | 163.57 ... | 6 ... | 91.50 ... | 94.36 ... | 165.36 ... |
| 5 ... | 90.11 ... | 93.36 ... | 163.62 ... | 5 ... | 91.54 ... | 94.38 ... | 165.40 ... |
| 4 ... | 90.14 ... | 93.39 ... | 163.66 ... | 4 ... | 91.57 ... | 94.41 ... | 165.45 ... |
| 3 ... | 90.18 ... | 93.41 ... | 163.70 ... | 3 ... | 91.61 ... | 94.43 ... | 165.49 ... |
| 2 ... | 90.21 ... | 93.44 ... | 163.75 ... | 2 ... | 91.64 ... | 94.46 ... | 165.54 ... |
| 1 ... | 90.25 ... | 93.47 ... | 163.79 ... | 1 ... | 91.68 ... | 94.48 ... | 165.58 ... |
| 0 ... | 90.29 ... | 93.49 ... | 163.84 ... | 0 ... | 91.71 ... | 94.51 ... | 165.62 ... |
| 8219 ... | 90.32 ... | 93.52 ... | 163.88 ... | 8179 ... | 91.75 ... | 94.53 ... | 165.67 ... |
| 8 ... | 90.36 ... | 93.54 ... | 163.93 ... | 8 ... | 91.79 ... | 94.56 ... | 165.71 ... |
| 7 ... | 90.39 ... | 93.57 ... | 163.97 ... | 7 ... | 91.82 ... | 94.59 ... | 165.76 ... |
| 6 ... | 90.43 ... | 93.59 ... | 164.02 ... | 6 ... | 91.86 ... | 94.61 ... | 165.80 ... |
| 5 ... | 90.46 ... | 93.62 ... | 164.06 ... | 5 ... | 91.89 ... | 94.64 ... | 165.85 ... |
| 4 ... | 90.50 ... | 93.64 ... | 164.11 ... | 4 ... | 91.93 ... | 94.66 ... | 165.89 ... |
| 3 ... | 90.54 ... | 93.67 ... | 164.15 ... | 3 ... | 91.96 ... | 94.69 ... | 165.94 ... |
| 2 ... | 90.57 ... | 93.70 ... | 164.20 ... | 2 ... | 92.00 ... | 94.71 ... | 165.98 ... |
| 1 ... | 90.61 ... | 93.72 ... | 164.24 ... | 1 ... | 92.04 ... | 94.74 ... | 166.03 ... |
| 0 ... | 90.64 ... | 93.75 ... | 164.29 ... | 0 ... | 92.07 ... | 94.76 ... | 166.07 ... |
| 8209 ... | 90.68 ... | 93.77 ... | 164.33 ... | 8169 ... | 92.11 ... | 94.79 ... | 166.13 ... |
| 8 ... | 90.71 ... | 93.80 ... | 164.38 ... | 8 ... | 92.15 ... | 94.82 ... | 166.17 ... |
| 7 ... | 90.75 ... | 93.82 ... | 164.42 ... | 7 ... | 92.18 ... | 94.84 ... | 166.21 ... |
| 6 ... | 90.79 ... | 93.85 ... | 164.47 ... | 6 ... | 92.22 ... | 94.87 ... | 166.26 ... |
| 5 ... | 90.82 ... | 93.87 ... | 164.51 ... | 5 ... | 92.26 ... | 94.90 ... | 166.30 ... |
| 4 ... | 90.86 ... | 93.90 ... | 164.56 ... | 4 ... | 92.30 ... | 94.92 ... | 166.35 ... |
| 3 ... | 90.89 ... | 93.93 ... | 164.60 ... | 3 ... | 92.33 ... | 94.95 ... | 166.40 ... |
| 2 ... | 90.93 ... | 93.95 ... | 164.65 ... | 2 ... | 92.37 ... | 94.98 ... | 166.44 ... |
| 1 ... | 90.96 ... | 93.98 ... | 164.69 ... | 1 ... | 92.41 ... | 95.00 ... | 166.49 ... |
| 0 ... | 91.00 ... | 94.00 ... | 164.74 ... | 0 ... | 92.44 ... | 95.03 ... | 166.53 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 8159 ... | 92.48 ... | 95.05 ... | 166.53 ... | 8119 ... | 93.96 ... | 96.11 ... | 168.42 ... |
| 8 ... | 92.52 ... | 95.08 ... | 166.63 ... | 8 ... | 94.00 ... | 96.13 ... | 168.47 ... |
| 7 ... | 92.55 ... | 95.11 ... | 166.67 ... | 7 ... | 94.03 ... | 96.16 ... | 168.51 ... |
| 6 ... | 92.59 ... | 95.13 ... | 166.72 ... | 6 ... | 94.07 ... | 96.18 ... | 168.55 ... |
| 5 ... | 92.63 ... | 95.16 ... | 166.76 ... | 5 ... | 94.10 ... | 96.20 ... | 168.59 ... |
| 4 ... | 92.67 ... | 95.19 ... | 166.81 ... | 4 ... | 94.14 ... | 96.23 ... | 168.63 ... |
| 3 ... | 92.70 ... | 95.21 ... | 166.86 ... | 3 ... | 94.17 ... | 96.25 ... | 168.67 ... |
| 2 ... | 92.74 ... | 95.24 ... | 166.90 ... | 2 ... | 94.21 ... | 96.27 ... | 168.71 ... |
| 1 ... | 92.78 ... | 95.27 ... | 166.95 ... | 1 ... | 94.24 ... | 96.29 ... | 168.75 ... |
| 0 ... | 92.81 ... | 95.29 ... | 167.00 ... | 0 ... | 94.28 ... | 96.32 ... | 168.79 ... |
| 8149 ... | 92.55 ... | 95.32 ... | 167.04 ... | 8109 ... | 94.31 ... | 96.34 ... | 168.84 ... |
| 8 ... | 92.59 ... | 95.35 ... | 167.09 ... | 8 ... | 94.34 ... | 96.36 ... | 168.88 ... |
| 7 ... | 92.62 ... | 95.37 ... | 167.13 ... | 7 ... | 94.38 ... | 96.39 ... | 168.92 ... |
| 6 ... | 92.66 ... | 95.40 ... | 167.18 ... | 6 ... | 94.41 ... | 96.41 ... | 168.96 ... |
| 5 ... | 93.00 ... | 95.42 ... | 167.23 ... | 5 ... | 94.45 ... | 96.43 ... | 169.00 ... |
| 4 ... | 93.04 ... | 95.45 ... | 167.27 ... | 4 ... | 94.48 ... | 96.46 ... | 169.04 ... |
| 3 ... | 93.07 ... | 95.48 ... | 167.32 ... | 3 ... | 94.52 ... | 96.48 ... | 169.08 ... |
| 2 ... | 93.11 ... | 95.50 ... | 167.36 ... | 2 ... | 94.55 ... | 96.50 ... | 169.12 ... |
| 1 ... | 93.15 ... | 95.53 ... | 167.41 ... | 1 ... | 94.59 ... | 96.53 ... | 169.16 ... |
| 0 ... | 93.18 ... | 95.55 ... | 167.46 ... | 0 ... | 94.62 ... | 96.55 ... | 169.20 ... |
| 8139 ... | 93.22 ... | 95.58 ... | 167.50 ... | 8099 ... | 94.66 ... | 96.57 ... | 169.24 ... |
| 3 ... | 93.26 ... | 95.61 ... | 167.55 ... | 8 ... | 94.69 ... | 96.60 ... | 169.28 ... |
| 7 ... | 93.30 ... | 95.63 ... | 167.59 ... | 7 ... | 94.73 ... | 96.62 ... | 169.32 ... |
| 6 ... | 93.33 ... | 95.66 ... | 167.64 ... | 6 ... | 94.76 ... | 96.64 ... | 169.36 ... |
| 5 ... | 93.37 ... | 95.69 ... | 167.69 ... | 5 ... | 94.80 ... | 96.67 ... | 169.40 ... |
| 4 ... | 93.41 ... | 95.71 ... | 167.73 ... | 4 ... | 94.83 ... | 96.69 ... | 169.44 ... |
| 3 ... | 93.44 ... | 95.74 ... | 167.78 ... | 3 ... | 94.86 ... | 96.71 ... | 169.48 ... |
| 2 ... | 93.48 ... | 95.76 ... | 167.82 ... | 2 ... | 94.90 ... | 96.74 ... | 169.52 ... |
| 1 ... | 93.52 ... | 95.79 ... | 167.87 ... | 1 ... | 94.93 ... | 96.76 ... | 169.57 ... |
| 0 ... | 93.55 ... | 95.82 ... | 167.92 ... | 0 ... | 94.97 ... | 96.78 ... | 169.61 ... |
| 8129 ... | 93.59 ... | 95.84 ... | 167.96 ... | 8089 ... | 95.00 ... | 96.80 ... | 169.65 ... |
| 8 ... | 93.63 ... | 95.87 ... | 168.01 ... | 8 ... | 95.04 ... | 96.83 ... | 169.69 ... |
| 7 ... | 93.67 ... | 95.90 ... | 168.05 ... | 7 ... | 95.07 ... | 96.85 ... | 169.73 ... |
| 6 ... | 93.70 ... | 95.92 ... | 168.10 ... | 6 ... | 95.11 ... | 96.88 ... | 169.78 ... |
| 5 ... | 93.74 ... | 95.95 ... | 168.15 ... | 5 ... | 95.14 ... | 96.90 ... | 169.82 ... |
| 4 ... | 93.78 ... | 95.97 ... | 168.19 ... | 4 ... | 95.18 ... | 96.93 ... | 169.86 ... |
| 3 ... | 93.81 ... | 96.00 ... | 168.24 ... | 3 ... | 95.21 ... | 96.95 ... | 169.90 ... |
| 2 ... | 93.85 ... | 96.03 ... | 168.28 ... | 2 ... | 95.25 ... | 96.98 ... | 169.95 ... |
| 1 ... | 93.89 ... | 96.05 ... | 168.33 ... | 1 ... | 95.29 ... | 97.00 ... | 169.99 ... |
| 0 ... | 93.92 ... | 96.08 ... | 168.38 ... | 0 ... | 95.32 ... | 97.02 ... | 170.03 ... |

ALCOHOL TABLES.

| Proof Spirits. | Specific Gravity at 60° F. 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F. 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|----------------|-------------------------------------|-----------------------------|-----------------------------|----------------|-------------------------------------|-----------------------------|-----------------------------|----------------|
| per cent. | | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 168.43 ... | 5079 | 95.86 ... | 97.65 ... | 170.67 ... | 5089 | 96.73 ... | 97.96 ... | 171.68 ... |
| 168.47 ... | 8 | 95.39 ... | 97.07 ... | 170.12 ... | 8 | 96.76 ... | 97.98 ... | 171.72 ... |
| 168.51 ... | 7 | 95.43 ... | 97.10 ... | 170.16 ... | 7 | 96.80 ... | 98.01 ... | 171.75 ... |
| 168.55 ... | 6 | 95.46 ... | 97.12 ... | 170.20 ... | 6 | 96.83 ... | 98.03 ... | 171.79 ... |
| 168.59 ... | 5 | 95.50 ... | 97.15 ... | 170.25 ... | 5 | 96.87 ... | 98.05 ... | 171.83 ... |
| 168.63 ... | 4 | 95.54 ... | 97.17 ... | 170.29 ... | 4 | 96.90 ... | 98.07 ... | 171.87 ... |
| 168.67 ... | 3 | 95.57 ... | 97.20 ... | 170.33 ... | 3 | 96.93 ... | 98.09 ... | 171.91 ... |
| 168.71 ... | 2 | 95.61 ... | 97.22 ... | 170.37 ... | 2 | 96.96 ... | 98.11 ... | 171.94 ... |
| 168.75 ... | 1 | 95.64 ... | 97.24 ... | 170.42 ... | 1 | 97.00 ... | 98.14 ... | 171.98 ... |
| 168.79 ... | 0 | 95.68 ... | 97.27 ... | 170.46 ... | 0 | 97.03 ... | 98.16 ... | 172.02 ... |
| 168.84 ... | 5069 | 95.71 ... | 97.29 ... | 170.50 ... | 5029 | 97.07 ... | 98.18 ... | 172.05 ... |
| 168.88 ... | 8 | 95.75 ... | 97.32 ... | 170.54 ... | 8 | 97.10 ... | 98.20 ... | 172.09 ... |
| 168.92 ... | 7 | 95.79 ... | 97.34 ... | 170.59 ... | 7 | 97.13 ... | 98.22 ... | 172.13 ... |
| 168.96 ... | 6 | 95.82 ... | 97.37 ... | 170.63 ... | 6 | 97.16 ... | 98.24 ... | 172.17 ... |
| 169.00 ... | 5 | 95.86 ... | 97.39 ... | 170.67 ... | 5 | 97.20 ... | 98.27 ... | 172.20 ... |
| 169.04 ... | 4 | 95.89 ... | 97.41 ... | 170.72 ... | 4 | 97.23 ... | 98.29 ... | 172.24 ... |
| 169.08 ... | 3 | 95.93 ... | 97.44 ... | 170.76 ... | 3 | 97.26 ... | 98.31 ... | 172.28 ... |
| 169.12 ... | 2 | 95.96 ... | 97.46 ... | 170.80 ... | 2 | 97.30 ... | 98.33 ... | 172.32 ... |
| 169.16 ... | 1 | 96.00 ... | 97.49 ... | 170.84 ... | 1 | 97.33 ... | 98.35 ... | 172.35 ... |
| 169.20 ... | 0 | 96.03 ... | 97.51 ... | 170.88 ... | 0 | 97.37 ... | 98.37 ... | 172.39 ... |
| 169.24 ... | 5059 | 96.07 ... | 97.53 ... | 170.92 ... | 5019 | 97.40 ... | 98.39 ... | 172.43 ... |
| 169.28 ... | 8 | 96.10 ... | 97.55 ... | 170.96 ... | 8 | 97.43 ... | 98.42 ... | 172.47 ... |
| 169.32 ... | 7 | 96.13 ... | 97.57 ... | 171.00 ... | 7 | 97.46 ... | 98.44 ... | 172.50 ... |
| 169.36 ... | 6 | 96.16 ... | 97.60 ... | 171.03 ... | 6 | 97.50 ... | 98.46 ... | 172.54 ... |
| 169.40 ... | 5 | 96.20 ... | 97.62 ... | 171.07 ... | 5 | 97.53 ... | 98.48 ... | 172.58 ... |
| 169.44 ... | 4 | 96.23 ... | 97.64 ... | 171.11 ... | 4 | 97.57 ... | 98.50 ... | 172.62 ... |
| 169.48 ... | 3 | 96.26 ... | 97.66 ... | 171.15 ... | 3 | 97.60 ... | 98.52 ... | 172.65 ... |
| 169.52 ... | 2 | 96.30 ... | 97.68 ... | 171.19 ... | 2 | 97.63 ... | 98.54 ... | 172.69 ... |
| 169.57 ... | 1 | 96.33 ... | 97.70 ... | 171.23 ... | 1 | 97.66 ... | 98.56 ... | 172.73 ... |
| 169.61 ... | 0 | 96.37 ... | 97.73 ... | 171.26 ... | 0 | 97.70 ... | 98.59 ... | 172.77 ... |
| 169.65 ... | 5049 | 96.40 ... | 97.75 ... | 171.30 ... | 5009 | 97.73 ... | 98.61 ... | 172.80 ... |
| 169.69 ... | 8 | 96.43 ... | 97.77 ... | 171.34 ... | 8 | 97.76 ... | 98.63 ... | 172.84 ... |
| 169.73 ... | 7 | 96.46 ... | 97.79 ... | 171.37 ... | 7 | 97.80 ... | 98.65 ... | 172.88 ... |
| 169.78 ... | 6 | 96.50 ... | 97.81 ... | 171.41 ... | 6 | 97.83 ... | 98.67 ... | 172.91 ... |
| 169.82 ... | 5 | 96.53 ... | 97.83 ... | 171.45 ... | 5 | 97.87 ... | 98.69 ... | 172.95 ... |
| 169.86 ... | 4 | 96.57 ... | 97.86 ... | 171.49 ... | 4 | 97.90 ... | 98.71 ... | 172.99 ... |
| 169.90 ... | 3 | 96.60 ... | 97.88 ... | 171.53 ... | 3 | 97.93 ... | 98.74 ... | 173.03 ... |
| 169.95 ... | 2 | 96.63 ... | 97.90 ... | 171.56 ... | 2 | 97.96 ... | 98.76 ... | 173.07 ... |
| 169.99 ... | 1 | 96.66 ... | 97.92 ... | 171.60 ... | 1 | 98.00 ... | 98.78 ... | 173.10 ... |
| 170.03 ... | 0 | 96.70 ... | 97.94 ... | 171.64 ... | 0 | 98.03 ... | 98.80 ... | 173.14 ... |

ALCOHOL TABLES.

| Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. | Specific Gravity at 60° F = 15.5° C. | Absolute Alcohol by Weight. | Absolute Alcohol by Volume. | Proof Spirits. |
|--------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------------|-----------------------------|-----------------------------|----------------|
| | per cent. | per cent. | per cent. | | per cent. | per cent. | per cent. |
| 7999 ... 98.96 ... | 98.96 ... | 98.96 ... | 173.17 ... | 7959 ... 99.33 ... | 99.33 ... | 99.37 ... | 174.53 ... |
| 8 ... 98.09 ... | 98.09 ... | 98.83 ... | 173.20 ... | 8 ... 99.36 ... | 99.36 ... | 99.59 ... | 174.55 ... |
| 7 ... 98.12 ... | 98.12 ... | 98.85 ... | 173.24 ... | 7 ... 99.39 ... | 99.39 ... | 99.61 ... | 174.59 ... |
| 6 ... 98.16 ... | 98.16 ... | 98.87 ... | 173.27 ... | 6 ... 99.43 ... | 99.43 ... | 99.63 ... | 174.62 ... |
| 5 ... 98.19 ... | 98.19 ... | 98.89 ... | 173.30 ... | 5 ... 99.45 ... | 99.45 ... | 99.65 ... | 174.66 ... |
| 4 ... 98.22 ... | 98.22 ... | 98.91 ... | 173.34 ... | 4 ... 99.48 ... | 99.48 ... | 99.67 ... | 174.69 ... |
| 3 ... 98.25 ... | 98.25 ... | 98.93 ... | 173.37 ... | 3 ... 99.52 ... | 99.52 ... | 99.69 ... | 174.73 ... |
| 2 ... 98.28 ... | 98.28 ... | 98.94 ... | 173.40 ... | 2 ... 99.55 ... | 99.55 ... | 99.71 ... | 174.76 ... |
| 1 ... 98.31 ... | 98.31 ... | 98.96 ... | 173.44 ... | 1 ... 99.58 ... | 99.58 ... | 99.73 ... | 174.80 ... |
| 0 ... 98.34 ... | 98.34 ... | 98.98 ... | 173.47 ... | 0 ... 99.61 ... | 99.61 ... | 99.75 ... | 174.83 ... |
| 7999 ... 98.37 ... | 98.37 ... | 98.99 ... | 173.50 ... | 7949 ... 99.65 ... | 99.65 ... | 99.77 ... | 174.87 ... |
| 8 ... 98.41 ... | 98.41 ... | 99.02 ... | 173.54 ... | 8 ... 99.68 ... | 99.68 ... | 99.80 ... | 174.90 ... |
| 7 ... 98.44 ... | 98.44 ... | 99.04 ... | 173.57 ... | 7 ... 99.71 ... | 99.71 ... | 99.82 ... | 174.94 ... |
| 6 ... 98.47 ... | 98.47 ... | 99.05 ... | 173.60 ... | 6 ... 99.74 ... | 99.74 ... | 99.84 ... | 174.97 ... |
| 5 ... 98.50 ... | 98.50 ... | 99.07 ... | 173.64 ... | 5 ... 99.78 ... | 99.78 ... | 99.86 ... | 175.01 ... |
| 4 ... 98.53 ... | 98.53 ... | 99.09 ... | 173.67 ... | 4 ... 99.81 ... | 99.81 ... | 99.88 ... | 175.04 ... |
| 3 ... 98.56 ... | 98.56 ... | 99.11 ... | 173.71 ... | 3 ... 99.84 ... | 99.84 ... | 99.90 ... | 175.08 ... |
| 2 ... 98.59 ... | 98.59 ... | 99.13 ... | 173.74 ... | 2 ... 99.87 ... | 99.87 ... | 99.92 ... | 175.11 ... |
| 1 ... 98.62 ... | 98.62 ... | 99.15 ... | 173.77 ... | 1 ... 99.90 ... | 99.90 ... | 99.94 ... | 175.15 ... |
| 0 ... 98.65 ... | 98.65 ... | 99.16 ... | 173.81 ... | 0 ... 99.94 ... | 99.94 ... | 99.96 ... | 175.18 ... |
| 7979 ... 98.69 ... | 98.69 ... | 99.18 ... | 173.84 ... | 7939 ... 99.97 ... | 99.97 ... | 99.98 ... | 175.23 ... |
| 8 ... 98.72 ... | 98.72 ... | 99.20 ... | 173.87 ... | Absolute. Alcohol | | | |
| 7 ... 98.75 ... | 98.75 ... | 99.22 ... | 173.91 ... | 7935 ... 100.00 ... | 100.00 ... | 100.00 ... | 175.25 ... |
| 6 ... 98.78 ... | 98.78 ... | 99.24 ... | 173.94 ... | | | | |
| 5 ... 98.81 ... | 98.81 ... | 99.26 ... | 173.97 ... | | | | |
| 4 ... 98.84 ... | 98.84 ... | 99.27 ... | 174.01 ... | | | | |
| 3 ... 98.87 ... | 98.87 ... | 99.29 ... | 174.04 ... | | | | |
| 2 ... 98.91 ... | 98.91 ... | 99.31 ... | 174.07 ... | | | | |
| 1 ... 98.94 ... | 98.94 ... | 99.33 ... | 174.11 ... | | | | |
| 0 ... 98.97 ... | 98.97 ... | 99.35 ... | 174.14 ... | | | | |
| 7969 ... 99.00 ... | 99.00 ... | 99.37 ... | 174.17 ... | | | | |
| 8 ... 99.03 ... | 99.03 ... | 99.39 ... | 174.21 ... | | | | |
| 7 ... 99.06 ... | 99.06 ... | 99.41 ... | 174.24 ... | | | | |
| 6 ... 99.10 ... | 99.10 ... | 99.43 ... | 174.28 ... | | | | |
| 5 ... 99.13 ... | 99.13 ... | 99.45 ... | 174.31 ... | | | | |
| 4 ... 99.16 ... | 99.16 ... | 99.47 ... | 174.35 ... | | | | |
| 3 ... 99.19 ... | 99.19 ... | 99.49 ... | 174.38 ... | | | | |
| 2 ... 99.23 ... | 99.23 ... | 99.51 ... | 174.43 ... | | | | |
| 1 ... 99.26 ... | 99.26 ... | 99.53 ... | 174.45 ... | | | | |
| 0 ... 99.29 ... | 99.29 ... | 99.55 ... | 174.49 ... | | | | |

Proof Spirals

| per cent. |
|----------------|
| ... 174.52 ... |
| ... 174.55 ... |
| ... 174.59 ... |
| ... 174.62 ... |
| ... 174.66 ... |
| ... 174.69 ... |
| ... 174.73 ... |
| ... 174.76 ... |
| ... 174.80 ... |
| ... 174.83 ... |
| ... 174.87 ... |
| ... 174.90 ... |
| ... 174.94 ... |
| ... 174.97 ... |
| ... 175.01 ... |
| ... 175.04 ... |
| ... 175.08 ... |
| ... 175.11 ... |
| ... 175.15 ... |
| ... 175.18 ... |
| ... 175.22 ... |
| ... 175.25 ... |